Leadership

Since 1842, The Citadel has molded individuals into leaders. As we enter a new millennium, The Citadel reaffirms its belief that the whole person is one who is worthy of the trust of others. The following qualities of leadership will be the guiding principles for The Citadel as we develop a new generation of leaders to serve their families, their communities, their professions, and their country.

Citadel Core Values

Honor • Duty • Respect

The Characteristics of Principled Leadership

Lead with humility

Embrace a true, authentic self

Act and speak with courage

Develop and value people and resources

Empower and hold others accountable

Respect others by building trust and learning from mistakes

Serve others before self

These characteristics will guide our behavior and serve as our moral compass in all that we say and do.
General Glenn M. Walters, USMC
President
Brigadier General Sally C. Selden, Ph.D., SPHR
Provost and Dean of the College
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# The Citadel Academic Calendar 2020-2021

## 2020

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</tr>
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<tbody>
<tr>
<td>Aug. 8</td>
<td>Class of 2024 Reports</td>
</tr>
<tr>
<td>Aug. 16</td>
<td>Corps of Cadets Upperclass Students Report</td>
</tr>
<tr>
<td>Aug. 19</td>
<td>Classes Begin for the Corps of Cadets/Day Students</td>
</tr>
<tr>
<td>Aug. 31</td>
<td>Last Day to Drop/Add</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Labor Day (Classes Held)</td>
</tr>
<tr>
<td>Oct. 2-4</td>
<td>Parents’ Weekend</td>
</tr>
<tr>
<td>Oct. 28</td>
<td>Last Day to Withdraw with a Grade of “W”</td>
</tr>
<tr>
<td>Nov. 3</td>
<td>Election Day</td>
</tr>
<tr>
<td>Nov. 24</td>
<td>Fall Furlough Begins after Last Class; SCCC/Day Classes End</td>
</tr>
<tr>
<td>Nov. 30</td>
<td>Reading Day</td>
</tr>
<tr>
<td>Dec. 1</td>
<td>Exams Begin Online for Corps of Cadets/Day Students</td>
</tr>
<tr>
<td>Dec. 10</td>
<td>Exams End for Corps of Cadets/Day Students Winter Furlough Begins</td>
</tr>
</tbody>
</table>

## 2021

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 10</td>
<td>Winter Furlough Ends Corps of Cadets Return</td>
</tr>
<tr>
<td>Jan. 13</td>
<td>Classes Begin for the Corps of Cadets/Day Students</td>
</tr>
<tr>
<td>Jan. 18</td>
<td>Martin Luther King Jr. Day (No Classes)</td>
</tr>
<tr>
<td>Jan. 19</td>
<td>Last Day to Drop/Add</td>
</tr>
<tr>
<td>Mar. 12</td>
<td>Spring Furlough Begins after Last Class</td>
</tr>
<tr>
<td>Mar. 21</td>
<td>Spring Furlough Ends Corps of Cadets Return</td>
</tr>
<tr>
<td>Mar. 22</td>
<td>All Classes Resume</td>
</tr>
<tr>
<td>Mar. 27</td>
<td>Corps Day/Recognition Day</td>
</tr>
<tr>
<td>Mar. 30</td>
<td>Last Day to Withdraw with a Grade of “W”</td>
</tr>
<tr>
<td>Apr. 28</td>
<td>Exams Begin for Corps of Cadets/Day Students</td>
</tr>
<tr>
<td>May 4</td>
<td>Exams End for Corps of Cadets/Day Students</td>
</tr>
<tr>
<td>May 8</td>
<td>Commencement</td>
</tr>
<tr>
<td>May 10</td>
<td>Maymester and Summer I Evening Classes Begin</td>
</tr>
<tr>
<td>May 24</td>
<td>Memorial Day (No Classes)</td>
</tr>
<tr>
<td>May 28</td>
<td>Maymester Ends</td>
</tr>
<tr>
<td>Jun. 1</td>
<td>Summer I Day Classes Begin</td>
</tr>
<tr>
<td>Jun. 24</td>
<td>Summer I Evening Classes End</td>
</tr>
<tr>
<td>Jun. 28</td>
<td>Summer II Evening Classes End</td>
</tr>
<tr>
<td>Jun. 29</td>
<td>Summer I Day Classes End</td>
</tr>
<tr>
<td>Jul. 9</td>
<td>Summer II Day Classes Begin</td>
</tr>
</tbody>
</table>
A Brief History of The Citadel

Early Years

The Citadel has a long history of preparing its graduates to serve their country, both in civil and military pursuits. The idea of “citizen-soldiers,” trained to take up arms for their country in time of conflict but prepared to serve with integrity and discipline in all walks of life, has been central to its mission from its early years.

In December of 1822, following the discovery of a slave revolt planned by Denmark Vesey, the South Carolina state legislature passed “An Act to Establish a Competent Force as a Municipal Guard for the Protection of the City of Charleston and Vicinity.” The original Citadel, intended to serve as an arsenal and guardhouse, was constructed near the site of Charleston’s Revolutionary War fortifications. Located just north of Calhoun Street, it stood in a neighborhood of free blacks, working-class whites, and slaves, where it provided a visible reminder of city authority. It was initially intended to house a municipal guard, but was instead guarded first by United States troops and then, during and after the Nullification Crisis in the early 1830s, by local troops.

In 1833, the legislature voted to consolidate arms and munitions at two locations, the Citadel in Charleston and the Arsenal in Columbia. In 1842, they voted to replace the local guard with students. Half of the students would pay tuition; the other half would be “beneficiary cadets,” young men selected from among the poorer residents of each county, whose tuition would be paid by the state. Importantly, all cadets took the same classes and performed the same duties, while uniforms erased social distinctions and rank was based on merit alone. The inclusion of cadets from all counties helped unify the state politically, while the spaces available to beneficiary cadets made The Citadel one of the only places in the state where the sons of poorer citizens could gain a college education.

In their curriculum and military training the schools were modeled on the United States Military Academy at West Point, Norwich (University), and the Virginia Military Institute.

The first classes were taught in 1843. Two years later the Citadel and Arsenal were combined, so that fourth-class cadets (freshmen) attended classes at the Arsenal, then transferred to the Citadel for their remaining three years. From the beginning, The Citadel was known for its high academic standards. Cadets were required to take courses in history, literature, logic, French, moral philosophy, and elocution, a liberal arts education that would prepare them to serve as leaders in public life. Many entered careers in law, medicine, and education. Others were called to religious service, including Bishop Ellison Capers, class of 1857, and William Porcher DuBose, class of 1855, one of the most influential theologians in the Episcopal tradition. Cadets also studied the practical sciences, including chemistry, physics, civil and military engineering, mathematics, astronomy, geology, and surveying. Among the school’s early
The Citadel alumni, E. L. Heriot, Class of 1847, conducted the first railroad survey west and south of the Rio Grande River, while T. J. Arnold, Class of 1852, designed the harbor and wharves of San Francisco and Oakland, California.

Students also studied infantry and artillery tactics, and helped train the state’s Palmetto Regiment for service in the Mexican-American War.

The Civil War and Reconstruction

When South Carolina seceded from the Union in December 1860, federal troops were moved from Fort Moultrie to Fort Sumter. To protect the entrance to Charleston Harbor, the Governor of South Carolina ordered a fortification to be constructed on Morris Island. On January 9, 1861, Citadel cadets who were stationed on Morris Island fired on a U.S. steamer, the Star of the West, which had been sent to re-supply Fort Sumter.

On January 28, 1861, the Corps of Cadets were incorporated into the military organization of the state as The Battalion of State Cadets. The cadets took part in eight engagements in defense of Charleston and South Carolina. In recognition of their service, the Office of the South Carolina Adjutant General authorized The Citadel to carry the following battle and campaign streamers:

- Star of the West, January 9, 1861
- Wappoo Cut, November 1861
- James Island, June 1862
- Charleston and Vicinity, July to October 1863
- James Island, June 1864
- Tulifinny, December 1864
- James Island, December 1864 to February 1865
- Williamston, May 1865

The college remained in operation throughout much of the war, and cadets were eligible for commissions in the state’s military upon graduation. Of the 224 graduates living at the time of the Civil War, 209 entered the Confederate service. Four graduates achieved the rank of Brigadier General: Johnson Hagood, Ellison Capers, Evander Law and Micah Jenkins. Citadel graduates were involved in the major battles of the war, including Fort Sumter, First Manassas, Shiloh, Vicksburg, Antietam, Chancellorsville, Gettysburg, Atlanta, and Petersburg.

The Arsenal Academy burned during the fall of Columbia in 1865 and never reopened. The Citadel was occupied by federal troops when Union forces entered Charleston in early 1865. After the end of Reconstruction Citadel alumni, who had organized the Association of Graduates in 1852, pressured the legislature to reopen the school. Although many legislators questioned the need for a state-supported military college in the absence of munitions to guard, the support of alumni and the Washington Light Infantry, as well as the school’s renewed commitment to educating beneficiary cadets, ultimately saved the institution. It reopened in 1882.
Military Service

Citadel alumni have served in all major military actions in which the United States has been involved since the late nineteenth century. Seventeen graduates served with volunteer regiments and five alumni served with the Regular Army in the Spanish-American War in 1898. The National Defense Act of 1916 began the formation of Reserve Officers Training Corps in U.S. colleges and offered the opportunity for recent graduates to enter the Regular Army. 315 Citadel graduates served in World War I; of the class of 1917, all 33 entered military service.

During World War II, The Citadel had the distinction of having the highest percentage of its students enter the military service of any college, with the exception of the service academies. Of 2,976 living graduates in 1946, 2,927 had served their country. Before the end of the war, 279 Citadel men had given their lives. Citadel graduates participated in all major campaigns of World War II, from Pearl Harbor through the major engagements in the European, North African, and Pacific Theaters, and at sea. A number of Citadel graduates fought in the Philippines and endured the Bataan Death March. The Citadel also provided wartime training to over 10,000 men under a contract with the War Department.

In the Korean War, roughly 1500 alumni were on active duty, and 31 graduates were killed in action. Sixty-five Citadel men gave their lives in Vietnam, and several graduates were prisoners of war in North Vietnam. Graduates also displayed their valor in the liberation of Grenada and peacekeeping operations in Beirut, Lebanon, and in the Balkans. During the Persian Gulf War 22 cadets served with Reserve and National Guard units; alumni served in both the Active and Reserve components of the Armed Forces. Citadel alumni, veteran students, and current cadets assigned to activated Reserve and National Guard units have served in both Afghanistan and Iraq. Twenty Citadel alumni have given their lives for their country in the War on Terror.

Citadel Expansion

The Corps of Cadets has grown from 43 students enrolled at the Arsenal and Citadel in 1843 to 2,356 in 2020. With 40 percent of the Corps now coming from out of state, and a student body that represents 27 different countries, the college draws students from a wide range of backgrounds and experiences.

The Citadel has attracted international students since the 1920s, when Chinese students entered as cadets, sponsored by the Boxer Indemnity Fund. Most went on to serve in the Chinese Army, several achieving the rank of Brigadier General. The Chinese cadets were followed by groups of students from Thailand in the 1960s, Iran in the 1970s, and Jordan in the 1970s and 1980s. Connections forged during international students’ college years could grow into lifelong bridges: Charles G. Huie later returned to the U.S. to conduct research as an engineer with the U.S. Army; Andrew Chinn became a business owner in the U.S.

The first African-American cadet, Charles D. Foster, entered the Citadel in 1966, three years after South Carolina began integrating its public colleges and universities. He graduated in 1970, followed by Joseph Shine in 1971; six African-American students graduated in 1973. African-American students were often targeted with racial slurs and threats of racial violence. At the same time, the unique culture of the Corps of Cadets, and particularly the shared experience of the fourth-class system, helped promote integration across racial lines. Today,
black and African-American students make up 7% of the Corps of Cadets, and 23% of the Corps are minorities.

Women began attending The Citadel in 1949 as part of the summer school program, and were admitted to evening classes in 1966. In 1995, Shannon Faulkner, through court orders, became the first woman to matriculate into the Corps of Cadets. She resigned a few days later, but the next year, following a United States Supreme Court ruling on a similar case involving the Virginia Military Institute, the Citadel Board of Visitors voted to revoke the male-only admissions policy of the Corps of Cadets.

In August of 1996, four females matriculated with the class of 2000. Two of these resigned amid allegations of hazing and harassment. The lawsuits and negative publicity associated with this incident marked a difficult time for the reputation and image of The Citadel and its alumni. Nancy Mace received her degree three years later, becoming the first female graduate of the Corps of Cadets. She was followed by Petra Lovetinska, who became the first female cadet to receive a commission in the U.S. Armed Forces. Today, women make up 9.7% of the Corps of Cadets. Women and minorities are an integral part of the Corps, many occupying key positions in the cadet chain-of-command, varsity athletics, and campus organizations. They also form an important part of The Citadel’s strong alumni network and have served on the Citadel Board of Visitors.

Veteran students, too, have become important contributors to the Citadel’s academic life. Veterans were first admitted as civilian students under the GI Bill® at the end of World War II; the current veterans program was established in 2007 and 68 veterans are currently enrolled as day students.

In 1968, the Citadel began granting graduate degrees through an evening program. The program grew until 1994, when the Citadel Board of Visitors approved the foundation of the College of Graduate and Professional Studies (now known as the Citadel Graduate College, or CGC). A coeducational institution from its conception, the CGC is now a mainstay of the Citadel’s academic environment, offering 28 graduate degree programs and 26 graduate certificate programs.

The Citadel’s growth has led to the need for an ever-larger physical campus. By the end of World War I, the school had outgrown its location on Marion Square and the City of Charleston donated land, previously the site of the South Carolina Interstate and West Indian Exposition, for a new campus. The current campus opened in 1922 with Padgett-Thomas Barracks, an infirmary, two wings of Bond Hall, and other auxiliary buildings. State- and federally funded building projects during the Depression included Summerall Chapel and the distinctive Works Progress Administration faculty houses. The college continues to expand as it serves a growing student body.

**Leading the Community and the World**

In addition to a long history of military service, the school’s citizen-soldier ideal prepares graduates for service and leadership in civil capacities. Alumni have gone on to pursue distinguished careers in areas including law, politics, medicine, engineering, education, business, and law enforcement. Ernest F. Hollings, Class of 1942, served as South Carolina Governor and United States
Senator Joseph P. Riley, Jr., Class of 1964, served ten consecutive terms as mayor of Charleston, overseeing a number of ambitious development projects. Alvah H. Chapman, Class of 1942, headed the influential Knight Ridder newspaper chain, while author Pat Conroy graduated in the Class of 1967. The Citadel and its graduates have also been active in world affairs. In addition to serving as Governor of South Carolina, John C. West, Class of 1942, served as U.S. Ambassador to Saudi Arabia, while Langhorne A. Motley, Class of 1960, served as U.S. Ambassador to Brazil and as Assistant Secretary of State for Latin American Affairs.

Today’s Citadel builds on this distinguished legacy, preparing students to lead with integrity in an increasingly interconnected world. Through a growing study abroad program, students develop language skills and gain experience working with a range of cultures and countries. The current honor system, re-instituted in 1955, enshrines the integrity of students and alumni as a cornerstone of The Citadel’s values. During their academic careers and beyond, Citadel men and women put into practice the core values and principles of the institution.

SUPERINTENDENTS /PRESIDENTS OF THE CITADEL

Captain William F. Graham, USA, 1843-1844
Major Richard W. Colcock, USA, 1844-1852
Major Francis W. Capers, CSA, 1852-1859
Major Peter F. Stevens, CSA, 1859-1861
Major James B. White, CSA, 1861-1865
Colonel John P. Thomas, CSA, Class of 1851, 1882-1885
Brigadier General George D. Johnson, CSA, 1885-1890
Colonel Asbury Coward, CSA, Class of 1854, 1890-1908
Colonel Oliver J. Bond, SCM, Class of 1886, 1908-1931
General Charles P. Summerall, USA, Ret. 1931-1953
General Mark W. Clark, USA, Ret. 1954-1965
General Hugh P. Harris, USA, Ret. 1965-1970
Major General James W. Duckett, SCM, Class of 1932, 1970-1974
Lieutenant General George M. Seignious II, USA, Ret., Class of 1942, 1974-1979
Vice Admiral James B. Stockdale, USN, Ret. 1979-1980
Major General James A. Grimsley, Jr., USA, Ret., Class of 1942, 1980-1989
Major General John S. Grinalds, USMC, Ret., 1997-2005
Lieutenant General John W. Rosa, USAF, Ret., Class of 1973, 2006-2018
General Glenn M. Walters, USMC, Ret., Class of 1979, 2018-Present
General Information

Accreditation

The Citadel is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, and specialist in education degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of The Citadel. Normal inquiries about the institution, such as admissions, educational programs, educational policies and practices, etc. should be addressed directly to The Citadel and not to the Commission’s office. This contact information is published exclusively for accreditation-related purposes.

Civil Engineering, Electrical Engineering, and Mechanical Engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET; web address is http://www.abet.org. The Bachelor of Science in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, 415 North Charles Street, Baltimore, MD 21202. Telephone: 410-347-7700; web address is www.abet.org.

The undergraduate program in Business and the program leading to the Master of Business Administration are accredited by the Association to Advance Collegiate Schools of Business (AACSB), 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602-5730. Telephone: 813-769-6500; Fax: 813-769-6559. The web address is www.aacsb.edu.

The Bachelor of Science in Nursing degree at The Citadel is accredited by the Commission on Collegiate Nursing Education (CCNE). 655 K Street, NW, Suite 750, Washington, DC 20001. Telephone: 202-887-6791; Fax: 202-887-8476; Web address: www.ccneaccreditation.org

Programs for the preparation of secondary teachers at the bachelor’s level, for the preparation of secondary and special education teachers at the master’s level, for the preparation of guidance counselors at the master’s and specialist degree levels, and for the preparation of school superintendents at the specialist degree level are accredited by the Council for Accreditation of Educator Preparation (CAEP), 1140 19th Street, NW, Suite 400, Washington, DC 20036. Telephone: 202-223-0077. The web address is www.caepnet.org. The Dean of the School of Education serves as the Director of Teacher Education.

Statement of Vision
Achieving excellence in the education and development of principled leaders.

Core Values

Honor
First and foremost, honor includes adherence to the Honor Code of The Citadel. A cadet “will not lie, cheat or steal, nor tolerate those who do.” The commitment to honor extends beyond the gates of The Citadel and is a life-long obligation to moral and ethical behavior. In addition, honor includes integrity, “doing the right thing when no one is watching.” Finally, honorable behavior includes exercising the moral courage to “do the right thing when everyone is watching.” The Honor Code is the foundation of our academic enterprise.

Duty
First and foremost, duty means to accept and accomplish the responsibilities assigned to me. At The Citadel, my primary duty is to perform academically and then to perform as a member of the Corps of Cadets and the campus community. I accept the consequences associated with my performance and actions. Once I have held myself accountable for my actions, then I will hold others accountable for their actions. Finally, duty means that others can depend on me to complete my assignments and to assist them with their assignments. Duty is also a call to serve others before self.

Respect
First and foremost, respect means to treat other people with dignity and worth — the way you want others to treat you. Respect for others eliminates any form of prejudice, discrimination, or harassment (including but not limited to rank, position, age, race, color, gender, sexual orientation, national origin, religion, physical attributes, etc.). In addition, respect for others means to respect the positions of those in authority which include faculty, staff, administrators, active duty personnel, and the leadership of the Corps of Cadets. Finally, respect includes a healthy respect for one’s self.

Mission
As a higher education institution, The Citadel’s mission is to educate and develop our students to become principled leaders in all walks of life by instilling the core values of The Citadel in a disciplined and intellectually challenging environment. A unique feature of this environment for the South Carolina Corps of Cadets is the sense of camaraderie produced through teamwork and service to others while following a military lifestyle.

The Citadel strives to produce graduates who have insight into issues, ideas, and values that are of importance to society. It is equally important that Citadel graduates are capable of both critical and creative thinking, have effective communication skills, can apply abstract concepts to concrete situations, and possess the methodological skills needed to gather and analyze information.

Throughout its history, The Citadel’s primary purpose has been to educate undergraduates as members of the South Carolina Corps of Cadets and to prepare
them for post-graduate positions of leadership through academic programs of recognized excellence supported by the best features of a military environment. The cadet lifestyle provides a structured environment that supports growth and development of each student’s intellect, discipline, physical fitness, and moral and ethical values. The four pillars which define The Citadel experience for cadets consist of these four developmental dimensions.

A complementary purpose of The Citadel, realized through The Citadel Graduate College, is to provide the citizens of the Lowcountry and the State of South Carolina opportunities for professional development by offering a broad range of educational programs of recognized excellence at both the graduate and undergraduate levels. These programs are designed to accommodate the needs of non-traditional students seeking traditional and demanding academic challenges.

**Institutional Characteristics.** The Citadel is a coeducational, comprehensive, public, four-year institution whose primary undergraduate student body consists of more than 2,400 members of the Corps of Cadets, all of whom reside on campus. The primary service area for these students is regional, with approximately half of each freshman class coming from South Carolina. The Citadel, however, does draw undergraduate students from all parts of the United States and many foreign countries. The college offers a wide range of baccalaureate degree programs (Bachelor of Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, and Bachelor of Science in Nursing) in the humanities, social and natural sciences, business administration, engineering, and education. These academic programs prepare graduates of the Corps of Cadets for a variety of careers; about half of these graduates enter business and the professions, a third or more enter the military and government service, and the remainder go directly into graduate and professional study. Many graduates choose to pursue professional or graduate degrees later in their careers.

Through its undergraduate and graduate programs, The Citadel Graduate College serves a degree-seeking population of approximately 1,300. The primary service area is the South Carolina Lowcountry. The Citadel Graduate College offers eight baccalaureate degree programs (Bachelor of Arts in Criminal Justice, Bachelor of Arts in Political Science, Bachelor of Science in Business Administration, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, and Bachelor of Science in Nursing, Bachelor of Science in Social Studies Education), seven graduate degree programs (Master of Arts, Master of Science, Master of Arts in Education, Master of Arts in Teaching, Master of Education, Master of Business Administration, and Specialist in Education), and eight certification programs. Meeting the needs of the South Carolina Lowcountry in terms of instruction, public service, and research, including such initiatives as cooperative programs with other educational institutions, is an important part of The Citadel’s mission.

Together, the Corps of Cadets and The Citadel Graduate College enroll approximately 3,700 students, about two-thirds of whom come from South Carolina.

In its education programs, The Citadel acknowledges and endorses the teacher-scholar ideal, recognizing that the excellence of all of its academic programs is dependent upon the quality of its faculty. This ideal is pursued through teaching and lecturing, researching, writing, publishing, and public service. The Citadel’s faculty also address audiences beyond the college by sharing their knowledge with other scholars and with the public.
Four-Year Principled Leader Development Model

4th class  Prepare
3rd class  Engage
2nd class  Serve
1st class  Lead

The Purpose of The Citadel's Military Environment

The Citadel seeks to provide the best qualities of a military and disciplined environment to support the growth and development of character, fitness, and moral and ethical principles, thereby preparing its students to meet the requirements of citizens and especially of leaders. From the first year, with the Fourth-Class System, through the senior year, the military environment requires additional duties and responsibilities not normally found on a college campus.

The military environment at The Citadel also attempts to draw out and cultivate such values as truth, honor, integrity, and courage. Qualities of proper behavior and etiquette are stressed, and excellence in military bearing and appearance is taught. Whether in military or civilian life, the testimony of the value of this institution in service to the nation, state, and local communities is prominent.

Official Communications

Each Citadel student is assigned a Citadel e-mail address. Official communications are often sent electronically, and these communications will be sent to the cadet’s Citadel e-mail address. It is the responsibility of each student to check his/her Citadel e-mail regularly to ensure receipt of all official communications.
Requirements for Admission

The Citadel gives consideration to all applicants who meet the personal, physical, and educational requirements for admission to the Corps of Cadets. The Citadel seeks to enroll well-rounded, mature students whose motivation and educational achievements indicate that they are prepared to do college level work with a reasonable probability of success. Therefore, each admission portfolio is reviewed individually and must include at least the following:

a. High School Record (courses, grades, class standing). The high school record provides insight into an applicant’s motivation, study habits, and scope of interest. Particular attention is given to grades earned in English, mathematics, science, history, and foreign languages.

b. College Entrance Examination Board Test Scores. Consideration is given to an applicant’s test scores on the College Board’s SAT or the American College Testing Program’s Assessment Exam (ACT). Although these test scores represent only one factor in the determination of an applicant’s acceptability, they tend to indicate the applicant’s educational development with respect to contemporaries; therefore, the applicant’s scores provide a reasonable evaluation of actual preparedness and potential to do college level work.

c. The Citadel seeks to determine acceptability through a thorough evaluation of each applicant’s character, maturity, motivation, readiness for college, amenability to a regimented lifestyle, emotional stability, and potential to contribute to cadet life. Where any one of these factors is in question, the College may obtain additional information by means of interviews with the applicant and/or the applicant’s parents or other persons who know the candidate. If it is deemed necessary, The Citadel may request that the applicant present a written report on goals in life, reasons for choosing The Citadel, or reasons for choosing a particular major field of study.

d. The Citadel reserves the right to cancel any academic acceptance or deposit if the recipient is found to be physically disqualified or if a subsequent academic or conduct record is found unsatisfactory. Entrance requirements must be fully met before the date of matriculation. No one will be admitted on probation.

Initial Acceptance and Withdrawals

New cadets are admitted to the Corps of Cadets only in the first semester of the school year but may commence their academic work in the preceding summer. However, courses taken before formal matriculation will not be counted toward the 24 credit hours required to be completed in the first academic year as a continuation requirement. Mid-year transfers from the federal service academies will be considered on an individual basis.

If a cadet finds it necessary to withdraw from The Citadel during the college year or does not wish to return to The Citadel in August following any college year, a written request for an honorable discharge must be sent to the Registrar.
Admission Procedure

Formal application for admission must be made by the applicant. The application for admission may be found online at www.citadel.edu/apply. The Citadel admits new students into the South Carolina Corps of Cadets only in the fall semester of each year.

A nonrefundable application fee of $40 must accompany each application. Applications for admission may be submitted after the candidate’s junior year in high school. All students are encouraged to apply no later than the fall semester of the prospective cadet’s senior year in high school. In addition, the applicant should make early arrangements to take the SAT or ACT test and have these test scores sent to The Citadel. Prospective cadets are responsible for having the official high school transcript sent directly to The Citadel’s Office of Admissions.

The Citadel will advise the applicant of subsequent procedural actions as they are necessary.

A deposit of $300 is required of all new cadets accepted for enrollment. This reservation fee is not refundable to those students who cancel their reservations after May 1.

Each applicant must undergo a thorough medical examination. Final admission is contingent upon the results of this test. Only The Citadel’s forms, which are provided on-line by the Office of Admissions, may be used to report these results. The medical examination form shows the immunizations required by The Citadel.

Legal Presence and Residency

The State of South Carolina requires all state colleges and universities to verify each student’s legal presence in the United States. Prior to matriculation, each matriculant will be required to submit a photocopy of their birth certificate or valid U.S. passport. (A copy of the birth certificate must be provided as part of the preregistration information necessary for enrollment in the ROTC classes.)

Personal Requirements

Applicants to the South Carolina Corps of Cadets must meet the U.S. Army standard for height and weight (Army Reg 40-501) and must be physically qualified as determined by the Citadel Surgeon. An initial applicant who fails to meet the Citadel height/weight standard can gain admission by passing the Citadel body-fat standard (included on the Admissions website under Physical Fitness) using the U.S. Army technique for measuring body fat. The height/weight standard for admissions is NOT the same as that required of a cadet. After matriculation, all freshmen fall under the Corps Physical Effectiveness Program and its standards as outlined in *The White Book*.

*Should an accident, injury, or serious illness in any way change the physical status of the applicant after acceptance but prior to arrival on campus, the Citadel Surgeon must be informed immediately.* Any physical impairment could result in cancellation or postponement of admission. In addition, an applicant must meet the following personal requirements:
a. Applicants must be at least 17 and less than 23 years of age on the day of matriculation at The Citadel. Exceptions to this policy are made only under extremely extenuating circumstances and with the permission of the Provost.
b. Applicants may not be married. (If a cadet marries, he/she will be discharged immediately.)
c. Applicants may not have childcare responsibilities for any minor child related to him/her by blood or marriage. (If a cadet assumes childcare responsibilities for any minor child related to him/her by blood or marriage, he/she will be discharged immediately.)
d. Applicants must not have a record of conviction of a criminal offense showing poor moral character.
e. Applicants are expected to be prepared physically for the rigors of cadet life. The Citadel Physical Fitness Test (CPFT) will be administered for record early in the fall semester. Individuals who do not meet standards will be required to participate in remedial physical training.

**High School Course Requirements**

All applicants for admission to The Citadel must be graduates of accredited high schools or must have satisfactorily completed the General Education Development (GED) examination. By this, the basic requirements for admission to the College comply with standards prescribed by the South Carolina Commission for Higher Education (CHE).

The following secondary school subjects are required:

<table>
<thead>
<tr>
<th>Area</th>
<th>Units</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>All four units must have strong reading (including works of fiction and non-fiction), writing, communicating, and researching components. It is strongly recommended that students take two units that are literature based, including American, British, and World Literature.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
<td>These units must include Algebra I, Algebra II, and Geometry. A fourth higher-level mathematics unit should be taken before or during the senior year. Foundations in Algebra and Intermediate Algebra may count together as a substitute for Algebra I if a student successfully completes Algebra II. No other courses may be substituted for the three required mathematics courses (Algebra I, Algebra II, and Geometry). Applicants who plan to major in mathematics, computer science, chemistry, physics, or engineering and who have not completed at least one-half unit of trigonometry will be required to complete MATH 119 with a grade of C or higher prior to enrolling in calculus.</td>
</tr>
</tbody>
</table>
Laboratory Science 3 Two units must be taken in two different fields of the physical, earth or life sciences and selected from among biology, chemistry, or physics or earth science. The third unit may be from the same field as one of the first two units (biology, chemistry, or physics or earth science) or from any laboratory science for which biology, chemistry, physics, or earth science is a prerequisite. Courses in general or introductory science for which one of these four units is not a prerequisite will not meet this requirement. It is also strongly recommended that students desiring to pursue careers in science, mathematics, engineering or technology take one course in all three fields.

Foreign 2 Two units of the same world language: Two units with a heavy emphasis on language acquisition

Social Science 3 One unit of U.S. History, a half unit of Economics, and a half unit of Government are required. World History or Geography is strongly recommended

Fine Arts 1 One unit in appreciation of, history of, or performance in one of the fine arts. This unit should be selected from among media/digital arts, dance, visual and spatial arts

Elective 2 Two units must be taken as electives. A college preparatory course in Computer Science (i.e., one involving significant programming content, not simply keyboarding or using applications) is strongly recommended for this elective. Other acceptable electives include college preparatory courses in English; fine arts; foreign languages; social science; humanities; mathematics; physical education; and laboratory science (courses for which biology, physics, or earth science is a prerequisite)

Physical Education 1 One unit of physical education to include one semester of personal fitness and another semester in lifetime fitness. Exemption applies to students enrolled in Junior ROTC and for students exempted because of physical disability or for religious reasons

Prior to entering The Citadel, each applicant should take steps to address any weaknesses in preparation in English or mathematics. The Citadel offers courses in these areas each summer.
The Citadel's Policy on Testing for Illegal Drugs

The Citadel has a clear and unwavering policy of zero tolerance for drugs. Whether on campus or off, the possession, solicitation, distribution, sale, or use of hallucinogenic, narcotic, or other controlled drugs or substances, or any drug paraphernalia, (except in accordance with a legal prescription for such substance, drug, or paraphernalia for the student possessing or using it), will result in expulsion. This policy does not permit cadets to tolerate these actions by fellow cadets. In support of this policy, The Citadel reserves the right to test members of the Corps of Cadets periodically for the presence of illegal drugs and other controlled substances. Agreeing to participate in this program of testing for drugs is a condition of final admission to The Citadel. Refusal to participate in this testing may lead to expulsion from the college.

Entrance Examinations

All applicants for admission to The Citadel are required to take the College Board’s SAT or the American College Testing (ACT) Assessment Tests. If an applicant lists The Citadel on either the SAT or ACT examination, the test scores will be sent to The Citadel approximately 30 days after the tests are taken. An applicant should complete the required entrance examinations early in the student’s senior year in high school.

Students from a foreign country whose native language is not English must receive satisfactory scores on the Test of English as a Foreign Language (TOEFL). Students who score less than 550 on the TOEFL paper exam or 79 on the computer exam are generally not eligible for academic acceptance. The TOEFL is prepared and administered by the Educational Testing Service of the College Entrance Examination Board and must be taken before March 1 of the spring preceding admission.

In order to apply for these tests, the applicant may apply online. Test dates, registration information and deadlines may be found at the links below:

SAT: https://collegereadiness.collegeboard.org/sat/register
TOEFL: https://www.ets.org/toefl/test-takers/ibt/take/register/
ACT: https://www.act.org/content/act/en/products-and-services/the-act/registration.html

Academic Requirements:

Veteran applicants must meet the academic standards outlined under the “High School Course Requirements” and “Entrance Examinations” sections for the Corps of Cadets or provide evidence of previous satisfactory college work. Qualified veteran students applying as transfer students must meet the requirements as stated in this catalog under the “Transfer Student Admissions” section.

Personal Requirements:

A. Veteran applicants are civilians and are not subject to those personal requirements specific to the Corps of Cadets. They will not be required to take the RPED Activities classes or ROTC.
B. Veteran applicants must not have a record of conviction of a criminal offense showing poor moral character.
Admissions Procedure:
In order to be considered for admission as a veteran student at The Citadel, the following actions must be completed:
A. Submit a complete Veteran’s Application for Admissions with a non-refundable $40 application fee.
B. Request all high schools and colleges attended to send official transcripts (if high school was completed by GED test, submit a copy of the equivalency certificate).
C. Request the College Entrance Examination Board (SAT) or the American College Testing Programs Assessment Exam (ACT) send to The Citadel, Office of Admissions the latest SAT or ACT test scores.
D. Submit DD Form 214 (member copy 4).

Transfer Student Admissions
A student who is applying for admission to the Corps of Cadets as a transfer student from another accredited college or university must have an official transcript sent directly from all colleges or universities previously attended to the Office of Admissions at The Citadel. The high school record and college entrance examination scores will also be considered. In addition to meeting all the personal requirements listed above for cadet admission, a transfer student must have at least a 2.0 (on a 4.0 scale) on all courses attempted. To be considered a transfer student, students must have earned a minimum of 24 hours of credit.
 Transfer students are subject to the Fourth-Class System. Please see the relevant information under the section entitled Military Policies.
 Transfer students pursuing a cadet degree are also subject to the requirement that they must reside in the Corps of Cadets for at least six full semesters or five semesters with one semester of approved study abroad.

Home Schooled Student Admissions
The Citadel will consider applications from qualified homeschooled students. Applicants from homeschool programs must meet the same requirements as traditional school students, including:
• Must complete the South Carolina state college preparatory course prerequisite requirements;
• Must submit a transcript that lists all courses taken, year completed, and level of course challenge (e.g., CP, Honors, AP, Dual Credit, etc.);
• Homeschooled students from South Carolina must be registered with an accredited and recognized homeschool program. If not, a GED will be required. For non-resident applicants, if your state does not require an accredited program, The Citadel will consider those rules for admissions consideration.

The Citadel Non-Cadet Veteran Day Program
An eligible non-cadet veteran is defined to be an individual who provides
evidence through a DD 214 of honorable discharge from one of the Armed Services indicating a minimum of 90 consecutive days of full-time federal active service, other than active duty for training. If a veteran has more than one discharge, all discharge stations must be honorable.

Credit Earned Through Testing

International Baccalaureate Program
The Citadel recognizes the International Baccalaureate (IB) and awards college credit for scores of 4 or higher on “higher level” examinations in the IB Program. The number of credits will be determined by the score obtained. A complete listing of course credits that may be earned through the IB Program may be acquired from the Registrar’s office.

CEEB Advanced Placement Program
The Citadel awards advanced placement credit to applicants who score 3 or higher on appropriate examinations. Applicants desiring Advanced Placement credits must have the official score report form sent directly to The Citadel from CEEB. A complete listing of The Citadel’s courses that may be completed through Advanced Placement credit may be obtained by contacting the Registrar’s Office.

College Level Equivalency Program
Through College Level Equivalency Program (CLEP) Subject Examinations, students are permitted to earn college course credits for knowledge they have gained in certain subject areas prior to beginning their college experience. Students are permitted to earn credits through CLEP only during their first year, including summer, at The Citadel. After the student has completed one year at The Citadel, no course credits may be earned through CLEP.
CLEPs credits may be earned under the following conditions:
1. Since all CLEP examinations are not accepted by The Citadel, the student
must obtain prior approval through the Office of the Registrar.

2. The score earned must meet or exceed the current minimum scored recommended by CLEP for that subject area exam.

3. The amount of credit will be determined by the scope of the material measured.

4. Because of the laboratory experience is such an integral part of the Core Curriculum Science Requirement, credit for only the lecture portion of a science course may be earned through CLEP. The lab portions must be earned through a laboratory course.

5. Because the basic skills of listening to and speaking a language are such critical components of the Core Language Experience, completing any portion of this requirement through CLEP must be approved by the head of the Department of Modern Languages.

A complete listing of courses for which credit may be awarded through CLEP is available in the Office of the Registrar.

A student may receive credit for no more than four courses through CLEP or any other “testing out program.”

Cambridge International

The Citadel recognizes the Cambridge International AICE program is an international, advanced secondary curriculum equivalent to the British system of "A-levels." Students who wish to receive AICE credits should submit official transcripts to the Registrar's office.
Academic Policies

Any exceptions to policies stated in this catalog, purported to have been made verbally to a student by an official of the college, are null and void unless documented with a signed statement from the college official authorized to make the exception.

This catalog is not an unchangeable contract, but an announcement of the current policies. Implicit in each student's matriculation at The Citadel is an unwritten agreement to comply with the institution’s rules and regulations, which The Citadel may modify to ensure the quality of its academic programs. When graduation requirements are changed, students will be informed in writing. Every effort will be made to ensure that the new requirements can be met by the student’s original expected graduation date.

Catalog of Record

The catalog bearing the number of the academic year in which cadets enter The Citadel will be their catalog of record for matters of academic policy (summer sessions will not be considered for this purpose).

When a cadet is readmitted after an absence of at least three academic semesters (summer sessions will not be considered as semesters for this purpose), the catalog bearing the number of the academic year in which the student is readmitted will be the catalog of record for matters of academic policy and graduation requirements.

Grades

Only letter grades are given to evaluate a student’s progress. The following definitions of letter grades are applicable:

“A” Superior
“B” Very Good
“C” Satisfactory; Acceptable
“D” Marginal; Passing
“F” Unsatisfactory
“P” Grade assigned in pass/fail courses that do not carry credit hours to designate passing performance.
“S” Grade assigned in pass/fail courses that carry credit hours to designate that a grade of “A,” “B,” or “C” has been earned and credit has been awarded.
“U” Grade assigned in pass/fail courses to designate that a grade of “D” or “F” has been earned and no credit has been awarded.
“W”Withdrawal from a course prior to the official deadline. After that time, students will receive the grade of “F” should they fail to complete the course or complete it unsuccessfully. Under extenuating circumstances, the grade of “W” may be awarded after the official deadline at the discretion of the Associate Provost for Academic Affairs after consultation with the instructor and requesting student. Supporting evidence is the responsibility of the student and must be submitted in writing to the Associate Provost for Academic Affairs.
“I” An Incomplete is awarded when course requirements have been very nearly met but for authorized reasons (illness, injury, family emergency, etc.) cannot be completed during the current semester. To be eligible for the grade of “I,” students must be passing at the time they are forced to terminate their participation in the course. Students who are not passing at the time they are forced to terminate their participation will receive the grade of “F” in the course. The grade of “I” must be removed within the first thirty class days of the next full semester, or the “I” becomes an “F.” The summer session will not be considered a semester in this case. Under extenuating circumstances, an extension may be awarded by the Associate Provost for Academic Affairs with the recommendation of the instructor. The removal of the Incomplete is the responsibility of the student. Students may not enroll in a course in which they currently have an “I.” A student is not eligible for Dean’s List or Gold Star awards until Incompletes are removed.

“IP” Grade assigned for courses in which requirements are not expected to be met in one academic term. The grade of “IP” must be removed in the next full semester, or the “IP” becomes an “F.” The summer session will not be considered a semester in this case. Under extenuating circumstances, an extension may be awarded by the Associate Provost for Academic Affairs with the recommendation of the instructor. The removal of the “IP” is the responsibility of the student. Students may not enroll in a course in which they currently have an “IP.”

Should a student fail to complete a semester or summer session for any reason, the grade in each course in which the student is then enrolled shall be “F,” “I,” or “W” as determined by the individual faculty member in consultation with the Associate Provost for Academic Affairs.

No numerical symbol, bracket, or percentage is assigned the equivalent of any grade. Arbitrary distribution of grades according to some formula or curve is not permitted. However, by means of departmental supervision and consultation among instructors, every effort is made to obtain consistent grading standards within the department or school.

End-of-the-semester grade reports and midterm progress reports are made available electronically through BANNER Self-Service.

Grade-Point Average Computation

For purposes of ascertaining a grade-point average, grades are weighted as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality-Points Per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td>F, I, IP, W, P, S, U</td>
<td>0</td>
</tr>
</tbody>
</table>

The grade-point average for any semester is determined by dividing the total number of quality points earned by the total number of hours for which grades of “A,” “B,” “C,” “D,” or “F” were received.
The cumulative grade-point average on which graduation, academic probation, and academic discharge are based is determined by dividing the number of quality points earned at The Citadel by the number of quality hours attempted at The Citadel. For this purpose, the number of quality hours includes all credit hours attempted at The Citadel for which grades of “A,” “B,” “C,” “D,” or “F” were received. The number of quality points earned includes all quality points associated with quality hours earned at The Citadel. The Citadel does not recognize plus or minus grades in undergraduate courses.

**Academic Awards**

*The Dean’s List* recognition is given to undergraduate students who have earned 12 or more semester hours excluding Pass-Fail hours whose semester grade-point average is 3.200 or higher, with no grade of “I” and no grade below “C.”

A Dean’s list medal is given to cadets to be worn on their cadet uniform during the following semester. A Dean’s List certificate is awarded to non-cadet students who meet the requirements for *Dean’s List* for the work in a semester. Dean’s List is not issued for the summer semester.

*Gold Stars* recognition is given to those students on the Dean's List who have made a grade-point average of 3.700 or higher for the work of a semester. *Gold Stars* will be worn on the cadet uniform in the semester after the cadet earned them. A *Gold Star* Recognition certificate is awarded to non-cadet students who meet the requirements for *Gold Stars* for the work of a semester. *Gold Stars* are not issued for the summer semester.

**Pass-Fail**

Juniors and seniors with cumulative grade-point averages of 2.00 or higher may take elective courses on a Pass-Fail option. Normally no more than one course may be taken under this option each semester, and no more than four courses taken under this option may be used to meet graduation requirements. Students may not change their decision to take a course on a Pass-Fail basis after the first two weeks of the term. Courses taken Pass-Fail carry graduation credit, but no quality points are awarded. Such courses are not included in GPA computations except in determining the First and Second Honor Graduates of the graduating cadet class.

Instructors report grades as usual, “A” through “F.” The Registrar’s Office translates an “A,” “B,” or “C” as an “S” (meaning “satisfactory, credit awarded”). Grades of “D” or “F” are translated as “U” (meaning “unsatisfactory, no credit awarded”).

Cadets who are taking a course under the Pass-Fail option and who wish to be considered for Dean’s List or Gold Star honors must satisfactorily complete the Pass-Fail course and must earn the appropriate GPA on 12 or more semester hours in addition to the Pass-Fail course.

In determining the GPA for the position of First and Second Honor Graduates, courses taken under the Pass-Fail option will be included.

Students desiring to take a course on the Pass-Fail option should contact the Registrar’s Office.
Students with Documented Disabilities

The Director of Services for Students with Disabilities is responsible for determining if a student has a documented disability as defined by the Americans with Disabilities Act and for determining appropriate accommodations and services. Students with disabilities are encouraged to self-identify to the Director upon admission to The Citadel. If the Director determines that a disability warrants substitutions for courses required in the areas of foreign language and/or mathematics, all grades of “F” earned in previously completed courses in that discipline will be changed to “U” and will not be included in computing the student’s GPA. Grades of “A,” “B,” “C,” or “D” made by students in previously completed courses in that discipline will not be altered.

Audit Status

Any student who is eligible to enroll in a particular course may, with the approval of the instructor and the Registrar, audit that course for no credit. There will be no additional charge if the student is enrolled for credit in courses totaling 12 or more hours. For students taking fewer than 12 credit hours, registration fees and 100 percent of the tuition for the course will be assessed. The student may not change the decision to take the course on an audit basis rather than for credit after the first two weeks of the term. Grades will not be given for courses taken in audit status.

Change of Grade

After grades in a course have been submitted to the Registrar’s Office, a change of grade will be considered only in cases of instructor error. The change of grade must be made within one month after the beginning of the next semester following the recording of the grade and must be approved by the head of the instructor’s department/school and by the appropriate school Dean. A grade change may not be based on work submitted after final grades have been submitted.

Taking or Repeating Courses to Improve the GPA/Grade Replacement

A student may not take or repeat a course which is taught at a lower level than or serves as a prerequisite for a course which the student has already completed. Courses may be repeated under the following conditions:

1. No course may be repeated once a grade of “B” or higher has been earned.
2. If a course is repeated, the last grade of record is used to determine whether course requirements for graduation have been met.
3. If a previously passed course is repeated, the hours may be used only once toward meeting requirements for total hours passed.
4. When courses are repeated under the conditions described above, the original course grade may be replaced by the newer grade when calculating students’ grade-point averages (GPAs), quality hours, and earned credit hours. Both the old and new grades will appear on students’ transcripts, but only the newer grade will be used in calculating GPAs. It is the student’s responsibility to complete Grade Replacement Request forms in the Office of the Registrar in order to have the new grade replace the older grade(s).
5. The maximum number of hours for which Grade Replacement will be allowed over the course of a student’s undergraduate career is 16. If a student repeats more than 16 hours of credit, both the old and the new grade will be used to calculate the student’s grade-point average (GPA), quality hours, and earned credit hours. Grades of “S” earned when a student elects to take a course on a Pass-Fail basis may not be used to replace older grades(s).

6. For the purpose of determining graduation honors (e.g., *cum laude*, etc.), both the old grade and the new grade will be used in making the GPA calculation to determine honors eligibility.

7. A student is not eligible for grade replacement after he/she has completed their degree program.

8. Once grade replacement has been requested and applied, it cannot be reversed.

**Student Appeal of Grade**

A Student will have three weeks from when final grades are released to begin this process.

1. The student presents his/her concerns in writing to the instructor and then discusses these concerns. The instructor will respond to the student within 3 business days. If the student's concerns are not resolved or if the instructor fails to respond within the allotted time, the student can proceed to the next step.

2. The student presents his/her concerns in writing to the department head. (In the event the instructor is the department head, then the dean will play this role, and if the instructor is a dean, then the Associate Provost of Operations will play this role.) The student then meets with the department head to discuss these concerns. The department head will respond to the student within 3 business days. If the student's concerns are not resolved or if the department head fails to respond within the allotted time, the student can proceed to the next step.

3. The student presents his/her concerns in writing to the dean. (If the student is uncertain of who the dean is, he/she should contact the Associate Provost who will direct the student appropriately.) The student then meets with the dean to discuss these concerns. If the student is not satisfied with the outcome of the discussion, the student will submit a grade appeal form and provide required material to the dean of the school within four weeks from when grades were released. The grade appeal form is available on the Registrar’s website: https://www.citadel.edu/root/registrar-forms.

Examples that can lead to a grade appeal include:

a. The instructor has miscalculated a final grade.

b. The instructor has violated the grading policies outlined in the syllabus.

c. The instructor has violated a college or departmental policy or procedure.

4. The dean will form a grade appeal committee consisting of at least three (3) tenured or tenure-track faculty (two from the relevant academic department and one from outside the department). The dean will provide direction to the committee, including emphasizing the importance of maintaining the confidentiality of the process.

5. The dean may request materials as needed from the instructor regarding the
grade appeal, including but not limited to grades, syllabus, and assignments, for the grade appeal committee.

6. The dean may request additional information from the student as needed for the grade appeal committee, as well as ask the student to craft a detailed letter about why he/she is appealing the grade. Note: The grade appeal committee does not interact with the student or instructor. Any needed materials are to be gathered and disseminated by the dean.

7. The grade appeal committee submits its recommendation to the Associate Provost. Potential recommendations that may be forwarded include, but are not limited to:

   a. Change of grade
   b. Late Withdrawal
   c. Change of grade to Pass/Fail option
   d. Opportunity to repeat class at no cost
   e. Appeal is denied

8. The Associate Provost will notify the student and instructor of the appeal decision within 15 business days of receipt of grade appeals form. The names of the members of the grade appeal committee are not shared in the decision letter nor are they shared with the course instructor or the student.

   **Transfer Credits**

   The appropriate deans or department heads have responsibility for considering all transfer courses. Normally, only courses taken at an accredited institution which are comparable in content and credit hours to specific courses offered by The Citadel and in which grades of “C-” or better have been earned will be considered for transfer. However, the appropriate dean or department head may accept for transfer to meet General Elective credits, courses that are not offered by The Citadel but which are considered to be worthy of credit as electives and in which grades of “C-” or higher have been earned. In those cases where a course has been taken in a department or school not represented at The Citadel, the dean of the school or head of the department in which the student is majoring will determine if the course in question may be accepted for General Elective credit.

   To ensure that courses taken away from The Citadel will be accepted for transfer, students **must** obtain written prior approval through the Office of the Registrar. Grades earned in courses transferred from another college will not be computed in the student’s grade-point average at The Citadel. Courses previously passed at The Citadel will not be accepted for transfer. All transcripts sent from another college to The Citadel become the property of The Citadel and cannot be issued to the student or a third party.

   **Cadets who have been given Academic or Conduct Discharges from The Citadel or who leave The Citadel while their conduct status is in question may not enroll in courses at The Citadel during that period of discharge nor may they transfer back to The Citadel courses taken during that period of discharge. Cadets who have resigned in lieu of a conduct discharge will be treated as if**
they have committed the offense with which they have been charged and have been given the most severe consequence available for that offense. Courses these cadets may take during the period of that consequence will not be considered for transfer back to The Citadel. Cadets who have been discharged for reasons other than academic or conduct may transfer back to The Citadel no more than one semester of academic work successfully completed during the period of discharge.

During the fall and spring semesters, a cadet may not take a course offered at another institution, classroom or online. Academic juniors or seniors may, in certain circumstances and with the approval of the Associate Provost for Academic Affairs, take one Citadel Graduate College online, undergraduate course per semester when space is available.

Maymester and Summer School

The Citadel offers a Maymester, two day summer sessions, and two evening summer sessions. Over a summer, a student will not normally be permitted to enroll at The Citadel or transfer in from another accredited institution more than four courses and associated labs. If, however, the student is enrolled in Maymester and two summer sessions, a maximum of five courses and associated labs may be taken. The maximum load allowed in Maymester is one course; the maximum allowed in each session of summer school is two courses and associated labs. As with all transfer courses, prior approval is required for transfer of summer courses taken at another accredited institution.

Class Attendance Policy

The cornerstone of undergraduate education is communication between the teacher and the learner, and at The Citadel, class attendance is mandatory. Students may, however, need to miss class for authorized reasons—athletic events, academic travel, special ceremonies, guard duties, military obligations, etc. Illness and personal emergencies may also cause students to be absent for legitimate reasons. Instructors should work with students in these cases to assist them in making up tests, exams, quizzes, and other work missed.

Should it be necessary to miss a class for any reason, the student will, unless circumstances preclude it, notify the professor in advance and will be responsible for any material missed. Tests and labs are critically important and are scheduled well in advance. It is, therefore, imperative that these are missed only due to circumstances beyond the control of the student and that the student notify the instructor when missing a test or lab cannot be avoided. Students are notified each time they are reported absent from a class and have 72 hours to make requests to their Academic Officer for adjustments.

Faculty members may correct submitted class absence data for 6 working days after the day the class meets by sending this information to the Associate Provost for Academic Affairs. However, the Associate Provost for Academic Affairs will accept no late class absence submissions from the faculty after the last day of classes each semester.

When the number of unexcused absences reaches 5, the student and his or her parents will be issued a warning by the Associate Provost for Academic Affairs that continued disregard of the academic policy requiring class attendance will
result in an academic discharge from the College. After 10 unexcused absences in any semester, the student will be permitted to complete the current semester, but will be academically discharged from the College for the following semester. Cadets who accumulate 10 or more unexcused absences in the spring semester and who would otherwise be eligible to participate in commencement will not be permitted to do so. In all other circumstances, cadets who accumulate 10 or more unexcused absences will be awarded an academic discharge.

**Final Examinations**

Examinations are required at the end of each semester. Examinations will be given at the assigned time. If a faculty member has more than one section of the same course, students may, with the permission of the faculty member and providing that there is no conflict, take the final examination with another section.

Since no scheduling conflicts are possible, make-up examinations should not be necessary. Any examination which is missed due to an emergency should be rescheduled after the regularly scheduled examination period but not during a Reading Period, during ESP, or on a Sunday. If rescheduling is not possible prior to the deadline for submission of final grades, the instructor should award the student an “I.” Conflicts resulting from a student’s travel arrangements do not constitute an emergency and do not justify a make-up examination. Any exception to these policies must be requested in writing by the student and concurred with by the instructor and the Associate Provost for Academic Affairs.

The final examination schedule is published each semester on the Citadel web page.

**Degrees**

The degree of Bachelor of Arts is conferred upon satisfactory completion of the appropriate program of study in chemistry, criminal justice, English, history, intelligence and security studies, modern languages, political science, or psychology. The Bachelor of Science degree is conferred upon satisfactory completion of the appropriate program of study in biology; chemistry; computer science; education; health, exercise, and sport science; mathematics, physics and sport management. Graduates in nursing receive the degree of Bachelor of Science in Nursing.

Graduates in accounting, business administration, finance, or supply chain management receive the degree of Bachelor of Science in Business Administration.

Graduates in civil engineering receive the degree of Bachelor of Science in Civil Engineering. Graduates in construction engineering receive the degree of Bachelor of Science in Construction Engineering. Graduates in electrical engineering receive the degree of Bachelor of Science in Electrical Engineering. Graduates in mechanical engineering receive the degree of Bachelor of Science in Mechanical Engineering.

**Requirements for Degree Completion**

**Academics:** A student must complete one of the major courses of study outlined in the catalog of record and must achieve a minimum grade-point average of 2.000 based on all quality hours attempted and all quality points earned at The Citadel. In addition, each student must achieve a minimum grade-point average of 2.000 based on all quality hours attempted and all quality points earned in
major coursework at The Citadel.

Students majoring in education or in the teaching track of health, exercise and sport science must achieve a cumulative grade-point average of at least 2.750 and a grade-point average of at least 2.750 on all professional education courses; and must have on file in the Registrar’s Office at The Citadel passing scores for the appropriate PRAXIS II and Principles of Learning and Teaching (PLT) Examinations.

If a student is pursuing a minor, a grade-point average of 2.000 must be achieved in all coursework completed in that minor.

All students, including transfer students from other colleges, are required to earn at The Citadel a minimum of one-half the semester hours prescribed for their major course of study.

The student’s school or department is responsible for ensuring that the student’s knowledge in the major is current. Cadets who have met the overall grade-point average and major coursework grade-point average requirements and who are conduct proficient but who have not completed all course requirements for graduation may take not more than two courses totaling 7 semester hours at another institution for transfer to The Citadel in order to complete major requirements. Prior approval of these courses is mandatory.

**ROTC:** ROTC course work plays a major role in The Citadel’s mission to educate and prepare graduates to become principled leaders and is essential for students seeking to receive a commission in one of the armed forces. All cadets must satisfy an ROTC requirement for every semester during which they are enrolled at The Citadel or until they have completed eight semesters or met graduation requirements.

The ROTC Requirement for cadets is as follows:

- Every freshman and sophomore cadet (i.e., all those who are classified 4A, 4B, 3A, or 3B) must enroll in and pass an ROTC class during their freshman and sophomore years. The ROTC classes are offered by the Departments of Aerospace Studies (AERO), Military Studies (MLTY), and Naval Studies (NAVL).

- Cadets who are pursuing a commission in one ROTC program and who then decide to pursue a commission in another ROTC program must have the approval of the head of the ROTC program they are leaving and the head of the ROTC program they wish to join. When cadets are changing to another ROTC, they are not, without the permission of the head of the ROTC Detachment, permitted to enroll in an ROTC class at a level lower than their academic classification. For example, a member of the sophomore class who wishes to change to another ROTC must enroll in a sophomore-level course in the new ROTC unless the head of the ROTC Detachment authorizes the enrollment in a lower-level course.

- Cadets who wish to move from one ROTC program to another but do not wish to pursue a commission must have the approval of the head of the ROTC department they wish to join, academic advisor, and the Associate Provost for Academic Affairs.

- If a cadet finds that he or she is not able to register for an ROTC class
or that he or she must withdraw from an ROTC class, the cadet must have the permission of the head of that ROTC Detachment (for students pursuing a commission) or the Associate Provost for Academic Affairs (for those not pursuing a commission). Failure to complete an ROTC class does not reduce the number of semesters in the ROTC requirement.

- Study abroad cadets will complete ROTC requirements via independent study or online.

- Junior and Senior cadets (i.e., those who are classified 2A, 2B, 1A, or 1B) who wish to pursue a commission in the Armed Forces upon graduation are required to enroll in and pass an ROTC class in every semester during which they are enrolled at The Citadel or until they have completed eight semesters or met graduation requirements.

- Upon the recommendation of the head of the appropriate ROTC department and with concurrence of the Associate Provost for Academic Affairs, training experiences may be accepted in lieu of ROTC coursework. When approved, the designated ROTC courses will be recorded on the student’s Citadel transcript as exempted military credits.

- Junior and Senior cadets (i.e., those who are classified 2A, 2B, 1A, or 1B) who are not pursuing military careers will not take the traditional junior and senior-level ROTC courses designed for cadets who will be commissioned at graduation. These cadets will, instead, fulfill the ROTC requirement by enrolling in a 3-hour ROTC-fulfilment course in the Fall and Spring semesters each year until they have completed eight semesters or met graduation requirements. This ROTC-alternative program for juniors and seniors provides a more relevant set of leadership-oriented courses/experiences for cadets who are not going into the U.S. military and allows the ROTC detachments to focus their resources on cadets who are pursuing a commission.

- Non-commissioning students will be responsible for taking one ROTC-fulfilment course each semester. All non-commissioning students should take LDRS 371. The remaining courses may be chosen from a wide variety of classes in the Leadership Studies minor, leadership-oriented courses in students’ major fields, and other high-impact practice courses such as internships or undergraduate research courses. Please visit the Leadership Department webpage for a list of ROTC Fulfillment courses.

ROTC classes (i.e., those designated AERO, MLTY, or NAVL) may not be used to satisfy elective requirements in any course of study.

Physical Education: The required physical education program for cadets is designed to provide an exemplary environment and experiences which contribute to an improved quality of life for the student. The program offers basic instruction in adult and lifetime physical fitness, healthful living, physical activities and recreational sports which are of immediate and lasting value. Each cadet is required to complete RPED 260: Physical Fitness, Resiliency, and Wellness (3 cr. hours), as well as two different RPED activity courses (0 cr. hours each).

Residential: Students pursuing a cadet degree must reside in the Corps of Cadets for at least six full semesters or five semesters with one semester of approved study abroad. For this policy, summer does not count as a semester.
Requirements for Participation in Commencement Exercises

Students who have not completed all degree requirements may participate in the May Commencement if the following conditions are met:

1. The student has earned at least a 2.000 cumulative GPA and 2.000 GPA in the major. For Education majors and Physical Education (Teaching Track) majors, the cumulative and professional education grade-point averages must be at least 2.750.
2. The student must be no more than 15 credit hours short of meeting degree requirements.
3. The student must be cleared by the Office of the Treasurer.
4. The cadet must have completed all tours and confinements and must have passed the Corps Physical Fitness Test as outlined in Chapter 5 of the White Book.
5. The cadet must have met all ROTC and RPED requirements.
6. The cadet must be eligible to complete degree requirements without returning to the Corps of Cadets since participation in commencement is the final act of a cadet.

Commencement Honors

Commencement Awards are restricted to those graduates who have earned and are using to satisfy graduation requirements a minimum of 90 semester hours.

Annually, the Board of Visitors recognizes the two top graduates of the Corps of Cadets by presenting at Commencement the David Shingler Spell Honor Graduate Awards, honoring David Shingler Spell, Class of 1950. The First Honor Graduate receives the traditional Scholarship Medal and both the First and Second Honor Graduates receive an appropriately inscribed plaque and a stipend to be used for educational expenses at the graduate level or at the discretion of the recipient. These honors are awarded to the cadet graduates whose grade-point averages at The Citadel are highest and second highest among the graduating cadet class. In case of a tie, grades in courses taken under the Pass-Fail option are included in computing the grade-point average. In those cases where the grade-point averages are still identical, the total number of quality points earned is used to break the tie.

To be eligible to graduate with honors and to be eligible for departmental honors, a student must have earned at The Citadel at least half of the semester hours required in the major course of study.

A degree summa cum laude is awarded to those students in the graduating class who have achieved a grade-point average of 3.900-4.000.

A degree magna cum laude is awarded to those students in the graduating class who have achieved a grade-point average of 3.700-3.899.

A degree cum laude is awarded to those students in the graduating class who have achieved a grade-point average of 3.500-3.699.

School/Departmental Honors are awarded on the recommendation of deans/department heads to those students of the graduating class who have earned a grade-point average of 3.500 or better in at least 36 hours of work in the major completed at The Citadel.

Non-cadet Enrollment in ROTC

Non-cadets are not permitted to enroll in ROTC classes unless they meet all the following conditions:
1. The individual must either be on active duty and on orders as a participant in a commissioning program for one of the armed services or be an enrolled veteran student.
2. The individual must be accepted as a degree-seeking student in the day program of The Citadel.
3. The individual must be enrolled as a full-time student in courses in the day program of The Citadel.
4. The individual must be provided leadership experiences outside the context of the Corps of Cadets.
5. ROTC classes will fulfill no degree requirements in a degree program of a non-cadet.
6. The individual must be in uniform while on campus.

**Course Load Requirements**

A full-time student must be enrolled throughout each semester in course work totaling at least 12 credit hours. A cadet must be a full-time student. Any cadet who drops below the 12-credit-hour minimum at any time during a semester is subject to discharge, unless there are extremely extenuating circumstances. Such circumstances must be presented in writing to the Associate Provost for Academic Affairs. Students and their parents should be aware that carrying fewer than 12 credit hours may affect insurance coverage with some insurance companies and may also affect eligibility for financial aid.

**Course Overload**

The maximum course load (credit hours) which will be approved for either fall or spring semester is normally 22. Overloads may be requested in writing to the Associate Provost for Academic Affairs. Course loads of up to 24 hours may be allowed in certain circumstances. But in no case will an overload of more than 24 hours be allowed.

**Course Substitutions**

Course substitutions are made only when justified by extenuating circumstances. Such circumstances must be presented in writing by the student, and the requested substitution must have the support of the faculty advisor, the associate dean or department head, and the Associate Provost for Academic Affairs. Forms for requesting course substitutions are available in the Registrar’s Office.

**Combining Courses**

Courses may be combined to meet a *maximum of one general elective* requirement under the following circumstances:
1. The courses to be combined must be offered by the same department and must be related in some way.
2. The associate dean or department head of the student’s major school or department must provide a recommendation and rationale for combining the courses.
3. The Associate Provost for Academic Affairs must grant final approval for the combining of courses.
Change of Academic Major

Students who wish to change their major should consult with their academic advisors as well as with the associate dean or department head offering the new major. Forms for requesting a change of academic major are available in the Registrar’s Office.

Pursuing a Double Major

Under certain circumstances, a student may wish to pursue two different majors concurrently within the same baccalaureate degree. This will be permitted under the following conditions:

1. Students must declare their intentions to the registrar no later than the fall semester of the junior year.
2. Both majors must be offered under the same baccalaureate degree.
3. Students must complete all requirements for each major.
4. Students, in addition to meeting a minimum overall grade-point average, must achieve the minimum grade-point average requirements of each major.
5. Requirements for both majors must be completed concurrently.

A student who has met these requirements will have both majors indicated on the transcript.

Pursuing a Second Baccalaureate Degree

Under certain circumstances, a student may wish to pursue two different baccalaureate degrees concurrently. This will be allowed under the following conditions:

1. The student must complete all requirements of each degree.
2. The student is normally expected to complete requirements for the second degree while pursuing the initial undergraduate degree.
3. Any remaining requirements after the initial degree has been completed may be addressed in the Citadel’s summer school, in The Citadel Graduate College, or in Day Student Status.

Internship Guidelines for Academic Credit

Academic Internships are extensions of classroom learning, with applied experiences, in a professional field, and related to a career path of interest (not to be confused with a "job" or "seasonal employment"). Internships should be clearly related to career interests, major, or minor. A minimum cumulative GPA of 2.50 is required to participate in an academic internship for credit during the academic semester. Exceptions and overrides must be approved by Associate Provost for Academic Affairs.

Academic Policies

Internships must meet criteria set by academic departments, which allows faculty to assign a grade to the work performed. Department standards sometimes vary, but internships require a minimum number of hours worked per semester, related to major/minor/career path. Most departments require weekly journals, regular meetings with supervisors, and final presentations (written or oral) based on a topic related to the internship experience, and a final evaluation of performance from the site supervisor.
Students may earn a maximum of a six hours of credit from internship courses to apply to a degree program at The Citadel and may participate in only one internship during a semester.

This section describes the following procedures relating to internships:

1. General Guidelines
2. Policies and Procedures for Academic Internships for Credit
3. Administrative Guidelines
4. Special Circumstances.

1. **General Guidelines to Secure Internship**
   a. Students may use a variety of methods and contacts to secure internships, for guidance, seek out The Citadel Career Center. Once secured, an internship must be evaluated/approved by a departmental academic advisor to ensure it meets standards to earn academic credit.
   b. Once an internship is secured and approved, students must register for the internship course and complete an Internship Agreement Form (see department or www.careercenter.edu/internships).
   c. The Internship Agreement Forms should include work schedule, which must be submitted and approved through Cadet Accountability System (CAS) by the academic department. Orders are reviewed/approved or disapproved by Provost and Commandant’s Department (for Special Circumstances should be referred to The Citadel Career Center).

2. **Policies and Procedures for Academic Internships for Credit**
   Department standards vary, depending on class space and availability. Check with academic advisor first, or if faculty is not available, seek Career Center for guidance.
   a. Student is academically eligible for an internship (typically a rising junior/senior) and has a minimum GPA of 2.5; exceptions are approved by Associate Provost for Academic Affairs.
   b. Secured internship meets criteria of academic department and he/she enrolls in internship course associated with academic or professional goal.
   c. Student completes The Citadel’s Internship Agreement Form which includes:
      • Waiver of Liability and Indemnity signed by Student, Site Supervisor and Academic Advisor
      • Supervisor contact and worksite information
      • Internship job description
      • Work Schedule reflects student is not “working” full time, but is balancing internship responsibilities with other student responsibilities. Department standards vary. Hours are typically between 90-120 hours over the course of the semester.
      • Start - End Dates fall within an academic semester
   d. Student is under regular and direct supervision and must adhere to The Citadel’s Honor Code.
   e. Student must complete all academic requirements during the semester.
   f. Hours may include virtual or offsite work, as long as they do not interfere with academic or leadership duties.
g. Cadet internships may not interfere with academic or cadet leadership duties including: Regimental PT/CPFTs, LTPs, Friday Parade (return to campus by 1430), or SMIs. Cadets may request special leave on occasion (White Book Chapter 6) to perform professional duties which are outside of special order through TACs, who have discretion for approval/disapproval. TAC and cadets should request Career Center assistance if there is confusion.

3. Administrative Guidelines
   a. Students are eligible to receive payment or a stipend for work performed, if this is a standard practice in the professional setting.
   b. Students may not receive internship credit for previous work experience after the fact (example: a student may not participate in a summer internship, and receive academic credit in the fall).
   c. After registration deadline has passed, student may register with permission from the academic department or Provost’s Office if he/she is able to meet requirements to earn academic credit.
   d. Internship may not conflict with academic coursework or Commandant’s schedule for cadets (see special circumstances).
   e. Students may complete up to two internships for academic credit at the discretion of the department.
   f. Students may register for a special topics course, in place of an internship, if a faculty advisor agrees to oversee the experience AND the special topic fulfills internship guidelines.
   g. Duplicate internships at the same site need to show evidence of increased responsibility or professional progression.

4. Special Circumstances
   Special circumstances are handled on a case-by-case basis and are reviewed by The Citadel Career Center with referral to the appropriate campus entity. These include:
   a. Emergent leave situations associated with a full-time offer or internship interview (which may include interviews/training prior to internship start date, but before special orders are approved by the academic department.) These may also be submitted approved by a TAC officer in Cadet Accountability System (CAS).
   b. Leave for drug tests or background checks.
   c. Training associated with an internship or professional full time offer (prior to graduation, but after internship has concluded).
   d. Participation in professional development related to an internship (documentation needed from supervisor, in writing, with company’s domain name and supervisor’s contact).
   e. Graduate school interviews for current seniors pursuing advanced degrees.
   f. Internship opportunities not clearly defined, does not meet traditional academic guidelines.
   g. Academic department is not offering academic credit (student may work to find a legitimate course substitute).
   h. Student has completed internships for academic credit, but organization
requires internship extension for training and continuity for a full-time offer.

i. Student is not eligible to earn academic credit, but needs an internship for some specific purpose related to a job offer (needs documentation). These include: shadowing hours needed to maintain security clearance where hours worked do not meet minimum internship standards or internship is with a federal agency that requires anonymity (ex. FBI)

<table>
<thead>
<tr>
<th>Internship Special Order vs. Special Leave for Cadets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special Orders</strong></td>
</tr>
<tr>
<td>• Cadet reviews and ensures he/she meets eligibility guidelines and registers for internship course</td>
</tr>
<tr>
<td>• Cadet completes internship agreement forms which are reviewed for accuracy by (A) academic internship supervisor (B) Citadel Career Center</td>
</tr>
<tr>
<td>• Special orders are submitted by department internship academic advisor through CAS</td>
</tr>
<tr>
<td>• Orders are reviewed/approved or disapproved by both Provost’s Office and Commandant’s Department</td>
</tr>
<tr>
<td>• Cadet receives confirmation of special order approval through CAS/email</td>
</tr>
</tbody>
</table>

NOTE: SPECIAL CIRCUMSTANCES REFERRED TO THE CITADEL CAREER CENTER: Internships with reoccurring conflicts which may prohibit cadets from participating should be referred to careercenter@citadel.edu. Cadet will be asked to provide supervisor’s contact information and written documentation for review and referral to appropriate campus resource.

**Taking Graduate Courses**

Without being admitted to an accelerated Master's program, academic seniors with a cumulative Grade Point Average of at least a 3.20 may take up to twelve hours of CGC graduate credit, with no more than six hours of graduate credit in any one full semester (Fall, Spring, Summer), when space is available. These courses may provide students a head start on earning a graduate certificate or a graduate degree, but graduate courses may NOT be used to meet undergraduate degree requirements and will NOT be used to compute undergraduate GPA. Students must have the permission of the Associate Provost for Academic Affairs.

Undergraduate juniors and seniors accepted in an accelerated program at The Citadel may take and share up to twelve hours of structured graduate credit between the graduate and undergraduate majors. Refer to specific accelerated program requirements for total hours permitted to share.

**Academic Classifications**

Undergraduate students’ academic classification is based strictly on earned credit hours. The table below reflects the required number of earned credit hours for each designated academic classification.
<table>
<thead>
<tr>
<th>Credits Earned</th>
<th>Academic Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-14</td>
<td>First Semester Freshman (4A)</td>
</tr>
<tr>
<td>15-29</td>
<td>Second Semester Freshman (4B)</td>
</tr>
<tr>
<td>30-44</td>
<td>First Semester Sophomore (3A)</td>
</tr>
<tr>
<td>45-59</td>
<td>Second Semester Sophomore (3B)</td>
</tr>
<tr>
<td>60-74</td>
<td>First Semester Junior (2A)</td>
</tr>
<tr>
<td>75-89</td>
<td>Second Semester Junior (2B)</td>
</tr>
<tr>
<td>90-104</td>
<td>First Semester Senior (1A)</td>
</tr>
<tr>
<td>105 and above</td>
<td>Second Semester Senior (1B)</td>
</tr>
</tbody>
</table>

Academic classification is used by the Office of Financial Aid to determine loan eligibility.

**Ordering and Receiving a Class Ring**

While any rising senior cadet may in the spring of the junior year be measured for and order a class ring, to be eligible to receive a class ring, a cadet must meet these two conditions: (1) have an academic classification of 1A and (2) have a cumulative GPA of at least 2.000. To participate in the Ring Ceremony, the cadet must (3) have passed the Corps Physical Fitness Test as outlined in Chapter 5 of the *White Book*. Cadets who have met academic requirements to receive the ring but have not met the Commandant’s Physical Effectiveness Requirements to participate in the Ring Presentation may pick up their rings on the Monday following Parents’ Weekend at the Holliday Alumni Center. If a cadet fails to meet requirements to receive the ring with his/her class, the Alumni Association will normally hold the ring until the end of the following spring semester. If the cadet has not met requirements to receive the ring by that time, it will be returned to the manufacturer. The cadet may not order the ring, again, until all requirements to receive the ring have been met. The eligibility of cadets who failed to meet ring eligibility in October of their senior year will be checked again in January. Cadets who have not yet received their rings but will receive their diplomas in May or will be eligible to participate in the commencement ceremony will be cleared to receive their rings before commencement. No other cadets will be cleared to receive their rings until after commencement.

These are minimum requirements and will not be waived. Students should see the Registrar to confirm eligibility.

**Academic Criteria for Continuance**

In order to be eligible to continue at The Citadel, a student must meet minimum standards for hours earned at The Citadel or properly transferred from another accredited institution and cumulative grade-point average maintained. These criteria are assessed initially after the cadet’s second semester at The Citadel and then at the end of each two-semester period.
Credits earned through AP or course work taken by an entering freshman in the summer prior to initial matriculation WILL NOT be used toward meeting the minimum standard for hours earned in an academic year. Although The Citadel will notify students who are deficient in either or both areas, it is the responsibility of the student to ensure that these criteria are met. To avoid academic discharge, a student must meet both hour and GPA requirements concurrently either at the end of the fall semester, at the end of the spring semester, or in August, as appropriate.

A full-time student (one carrying at least 12 credit hours each semester) must pass at least 24 semester hours in each 12-month period after initial matriculation or readmission. If a previously passed course is repeated, the hours may be used only once toward meeting requirements for hours passed.

Part-time students must pass 50% of the hours attempted.

Each student must maintain a minimum cumulative grade-point average as prescribed in the following table. This grade-point average is calculated as described earlier in this section.

The column labeled “Total Hours” includes 1) all credits attempted for which a grade of “A,” “B,” “C,” “D,” or “F” was received at The Citadel, 2) course work transferred from other colleges, and 3) courses taken Pass-Fail or in which the grade of “U” was earned.

<table>
<thead>
<tr>
<th>Total Hours (Quality Hours Plus Transfer &amp; Pass/Fail Hours)</th>
<th>Grade-Point Average for Continuance on Probation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-39</td>
<td>1.300</td>
</tr>
<tr>
<td>40-69</td>
<td>1.500</td>
</tr>
<tr>
<td>70-99</td>
<td>1.700</td>
</tr>
<tr>
<td>100 &amp; above</td>
<td>1.900</td>
</tr>
</tbody>
</table>

This table shows the minimum academic progress a student must make to continue at the College and to avoid academic discharge.

For the purpose of determining academic probation, criteria for continuance, dean’s list, gold stars, graduation, and other academic matters, the grade-point average will be computed to three decimal places.

Academic Probation

A student is placed on academic probation for any semester when the cumulative grade-point average based on courses taken at The Citadel fails to meet the requirements for continuance without probation as outlined in the following table. A student will be removed from academic probation after the semester in which the cumulative grade-point average meets the requirements set forth in the following table.

<table>
<thead>
<tr>
<th>Total Hours (Quality Hours Plus Transfer &amp; Pass/Fail Hours)</th>
<th>Grade-Point Average for Continuance without Probation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-39</td>
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</tr>
<tr>
<td>40-69</td>
<td>1.800</td>
</tr>
<tr>
<td>70-99</td>
<td>1.900</td>
</tr>
<tr>
<td>100 &amp; above</td>
<td>2.000</td>
</tr>
</tbody>
</table>
**Academic Discharge**

A cadet’s academic record will be subject to formal review for purposes of academic discharge at the end of the second semester after initial matriculation at The Citadel. During these two semesters and the summer sessions after initial matriculation, the cadet must have earned at least 24 credit hours and must at the time of review meet GPA requirements for continuance. If these requirements are not met concurrently at that time, the cadet will be discharged for academic deficiencies.

Academic assessment for the purpose of academic discharge is conducted at the end of each two-semester period, and the associated summer sessions, after the student is admitted or readmitted. Under the Academic Discharge Policy, cadets may be discharged for academic deficiencies in January or in August of each year. Credits completed while a student is on academic discharge will not normally be accepted for transfer to The Citadel. Exceptions to this policy must have the approval of the Associate Provost for Academic Affairs.

Summer session work cannot make students ineligible to enroll in the following fall semester, if they were eligible for enrollment at the end of the previous spring semester.

Minimum grade-point averages for the various categories are as shown in the previous sections; however, the minimum GPA required will not be raised as a result of summer school work. That is, students moving from one category to the next higher category as a result of credit hours earned in summer school at The Citadel or elsewhere will be required to meet the GPA minimum of the lower category of credit hours for continuance in the following fall term.

Students who voluntarily withdraw at times other than January or August or who are discharged for other than academic reasons will have their academic status assessed upon application for readmission.

Cadets may also be discharged for violating The Citadel’s class attendance policy. When the number of unexcused absences reaches 5, the student and his or her parents will be issued a warning by the Associate Provost for Academic Affairs that continued disregard of the academic policy requiring class attendance will result in an academic discharge from the College. If the number of unexcused absences reaches 10, the student will be permitted to complete the current semester, but will be academically discharged from the College for the following semester. Cadets who accumulate 10 or more unexcused absences in their final semester and who would otherwise be eligible to participate in commencement will not be permitted to do so. In all other circumstances, cadets who accumulate 10 or more unexcused absences will be awarded an academic discharge for the following semester.

**Readmission**

A student who is discharged for academic reasons for the first time may apply for readmission after being out of school for one semester. Summer school does not constitute a semester in this instance. Students who are discharged for academic or disciplinary reasons may not, during the period of discharge, take
courses for transfer to The Citadel. The deadline for the receipt of an application for readmission for Maymester and summer School is March 1st, for the spring term is October 1st, and for the fall term is June 1st.

When a student applies for readmission to The Citadel, his/her catalog year of record will be reviewed by the Registrar’s Office and the Associate Provost. The student will then be assigned a catalog year which most appropriately fits their coursework.

In addition to any specific readmission requirements stated at the time of discharge, applicants for readmission to the South Carolina Corps of Cadets must meet the personal and physical fitness requirements for current cadets (see updated Application for Readmission on the Registrar’s website). These include the following:

a. Applicants for readmission must meet the U.S. Army standard for height and weight (Army Reg 600-9) and must be physically qualified as determined by the Citadel Surgeon. Applicants who fail to meet the height/weight standards can gain readmission by meeting the Citadel body-fat standard. Height/weight and body-fat standards for current cadets are detailed in the White Book, Chapter 5. These standards are more stringent than those for initial applicants.

b. Applicants for readmission may not be married nor have childcare responsibility for any minor child related to him or her by blood or marriage.

c. Applicants must not have a record of conviction of a criminal offense showing poor moral character.

d. Applicants for readmission must be less than 26 years old on the first day of classes in the semester of their readmission. Applicants for readmission who have not completed their fourth-class system requirements must be less than 23 years old on the first day of classes in the semester of their readmission.

If approved for readmission after an academic discharge, the student will be readmitted on academic probation. Cadets who have been approved for readmission may or may not be assigned to their former cadet company.

**Second Academic Discharge**

A student who fails for a second time to meet minimum academic criteria for continuance will be awarded a Second Academic Discharge. The Associate Provost for Academic Affairs will review the academic record and any extenuating circumstances the student wishes to present in writing. Based on this review and in consultation with the faculty advisor and the department head or Associate Dean, the Associate Provost for Academic Affairs will determine the conditions under which the student may be considered for readmission after a second academic discharge.

**“Academic Forgiveness” or “Fresh Start” Policy**

Any undergraduate student who has been separated from The Citadel for 48 or more consecutive months is eligible to apply for Academic Forgiveness.
Upon readmission, a student seeking to apply for Academic Forgiveness must first complete 24 hours at The Citadel with a grade-point average (GPA) of 2.0 or higher on those 24 hours in order to apply for Academic Forgiveness.

To apply for Academic Forgiveness, a readmitted student who has met the minimum GPA requirement on 24 hours must make a formal written request for an academic “fresh start” and must meet in person with the Associate Provost for Academic Affairs to discuss that application.

If a student is granted Academic Forgiveness, then all previous coursework completed at The Citadel will be treated as transfer credit (i.e., as pass/fail coursework) for the purpose of computing the student’s cumulative Citadel GPA and the student’s Major GPA; in addition, courses which the student previously passed at The Citadel with a grade of “D” will continue to be counted in the student’s total earned hours and will not have to be repeated. All previous grades will remain on the student’s permanent record, but they will not be computed in the student’s GPA. The transcript will contain this notation: “Academic Forgiveness was granted as of (date of readmission); grades earned at The Citadel prior to this date are not included in this student’s GPA calculation.” Students who have been granted Academic Forgiveness will not be eligible to receive graduation honors (e.g., cum laude, etc.).

Conduct Discharge

Cadets who have been suspended or dismissed or who leave the College with a disciplinary board pending are not eligible to attend any undergraduate class at The Citadel—day, evening, or summer—or to transfer credits back to The Citadel for any courses taken during the period of discharge.

Cadets Called to Active Duty

When Cadets are called to Active Duty, it is the policy of The Citadel to minimize the academic and financial impacts of being required to interrupt their studies. When the cadet learns that call to active duty is likely, he/she notifies the Office of the Associate Provost for Academic Affairs and his/her Tactical Officer.

Financial

If the cadet and his/her instructors feel that completing courses in which he/she is currently enrolled is not a reasonable expectation, the cadet is awarded the grade of “W” in each course and is provided a full refund less room and board used and OneCard charges. When the cadet elects not to withdraw from all courses, refunds of tuition and fees are prorated based on a per-credit-hour rate and the number of credits the cadet and his/her faculty members believe he/she will be able to complete.

Academic

When the date of required departure from The Citadel becomes fixed, the cadet works with his/her instructors to determine if it is reasonable to complete courses after departing on active duty or delaying completion until the cadet returns to The Citadel. In this effort, the instructor is not expected to modify the expectations or assignments of the course, but to help the student determine if it is feasible to continue to work on, and ultimately complete, course requirements after leaving The Citadel. In some cases, the date of departure is sufficiently late in the semester that final course assignments and the final exam can be completed before the cadet leaves campus. This, however, will likely be the exception rather than the rule, and faculty members are not expected to “force” early course completion.
When the faculty member and the student feel that it is not reasonable to complete requirements in a particular course, the student is withdrawn from that course with the grade of “W.” When the faculty member and student feel that requirements in a particular course can be completed by the student through independent study, the grade of “I” is given until course requirements are met. If at any time the faculty member and/or the student feel that completing the course is no longer a reasonable expectation, the student is given the grade of “W” in that course.

**Civilian Students in Cadet Classes**

With the exceptions of Day Students, Returning Veteran Cadets, no civilian students are permitted to take classes with the Corps of Cadets. These three student categories are defined below.

**Fifth Year Student Status**

Cadets will normally remain in the Corps of Cadets until degree requirements have been met. Cadets who have completed eight semesters in the Corps of Cadets, all ROTC requirements, all LDRS course requirements, and all RPED course requirements and who have been cleared by the Commandant and the Treasurer may apply for Fifth Year Student status through the Office of the Registrar.

Cadets who request Fifth Year Student status with the desire to participate in the Long Gray Line Parade and Corps of Cadets graduation ceremony must be certified as proficient in all pillars prior to becoming a Fifth Year Student. This is evaluated at the time of the cadet’s application by the Office of the Commandant.

If Fifth Year Student status is approved, the student must live off campus and may attend day classes with the Corps of Cadets or evening undergraduate classes. While on campus in Fifth Year Student status, students will wear civilian clothes, but their attire is expected to be compatible with the military environment established by the uniformed Corps of Cadets.

To satisfy the Commandant’s requirements for participating in the commencement ceremony, cadets in Day Student status must meet with the Commandant’s Sergeant Major no later than the Wednesday of commencement week and review all expectations. These include an inspection of all uniforms related to graduation and Height/Weight screening if necessary.

For Fifth Year Students, the following specific dress code is in force:

1. Regulations pertaining to body piercing and tattoos are the same as those for the members of the Corps of Cadets.
2. A broken uniform is unattractive anywhere, but it is especially unsuited for a military college campus or classroom. Portions of cadet uniforms are not, therefore, to be worn by non-cadets.
3. Hair will be neatly trimmed and styled; as will mustaches and sideburns if they are worn. Men will be permitted to wear beards only when required to do so for medical reasons, which must be explained in writing by a physician and submitted to the Associate Provost for Academic Affairs.
4. Students will wear business attire when attending formal occasions when the members of the Corps of Cadets are required to appear in full dress or white uniform.
5. Any student who is not in compliance with minimum standards for personal appearance will be required to leave campus until discrepancies are corrected. Repeated offences may result in discharge from the College.
Veteran Students Policy
1. All veteran students must declare either the day/cadet or Evening Undergraduate College Transfer Program when they begin taking classes at The Citadel. Veterans who declare themselves day students must follow the South Carolina Corps of Cadets general education requirements and attend the day program commencement ceremony. Veterans who declare their status as evening students must meet Evening Undergraduate Studies general education requirements and attend the Citadel Graduate College commencement exercises.

2. Veterans may change their official student status once in their time as a student at The Citadel. Exceptions to this rule must be approved by the Associate Provost for Academic Affairs.

3. Veteran students may enroll in day or evening classes.

Veteran Cadet Program
Effective with the fall 2008 semester, cadets who have begun their pursuit of the cadet degree and have elected to pursue or have been called to active military service will be provided the following options if their tour on active duty was not for training purposes and they have been discharged honorably with full rights and privileges of a veteran.

Option 1. If they are eligible, they may return to the Corps of Cadets to continue to pursue the cadet degree.

Option 2. They may enroll as civilian students in classes with the Corps of Cadets to pursue a non-cadet degree with non-cadet diploma and ring (the same diploma and ring available for current Active Duty Students and students in The Citadel Graduate College.)

Eligibility Criteria
• must have been sworn into the Corps of Cadets at The Citadel
• must have been honorably discharged from active duty with the full rights and privileges of a veteran
• must meet academic and disciplinary criteria for readmission to The Citadel

Students electing this option
• may enroll in civilian status in classes with the Corps of Cadets
• may enroll in evening classes in The Citadel Graduate College
• are eligible to earn the non-cadet degree/diploma and receive the non-cadet ring currently awarded to Active Duty students and students in The Citadel Graduate College
• may not return to the Corps of Cadets but will be allowed to participate in Cadet Commencement in cap and gown.

At its 14 June 2008 meeting, the Board of Visitors approved the pursuit of the Cadet Degree, Diploma, and Ring through the Veteran Cadet Program under the following conditions:
1. The former cadet has received while on active duty and in combat an injury that precludes readmission to the Corps of Cadets; or
2. The former cadet has served at least four semesters in the Corps of Cadets prior to moving to Veteran Cadet status.
Former cadets who are approved to pursue the Cadet Degree in Veteran Cadet status will be awarded credit for appropriate ROTC courses 301, 302, 401, and 402 based on their active duty service, and requirements to complete two RPED activity courses, and LDRS courses will be waived.

Through these options, The Citadel is attempting to address the needs of those students who have formally joined the Corps of Cadets but prior to completing the cadet degree have been called to active duty or have elected to serve on active duty that ends with an honorable discharge as a veteran.

**Non-Cadet Veteran Day Program**

An eligible non-cadet veteran is defined to be an individual who provides evidence through a Department of Defense Form DD 214 of honorable discharge from one of the Armed Services indicating a minimum of 90 consecutive days of full-time federal active service, other than active duty for training. If a veteran has been discharged more than once, all discharges must be honorable.

**Academic Requirements:**

Veteran applicants are civilians and will not be subject to academic requirements specific to the Corps of Cadets. The curricular requirements pertaining only to members of the Corps are described on pages 105-107 of this catalog.

**Student Academic Grievances**

The academic grievance process of the college is reserved for the most serious alleged offenses. These matters deal not with differences of opinion, but with violations of due process; denial of individual rights; or unequal treatment or discrimination based on sex, race, color, or national origin. Students who feel that they have an academic grievance are directed first to confer with the instructor or other individual(s) involved. Where this does not result in satisfaction or if this step is not feasible, the student should present the grievance in writing to the lowest appropriate level not involved in the grievance, department head or associate dean.

If the matter remains unresolved, the student may present the grievance and the attempted solution in writing to the appropriate dean. If deemed appropriate, the dean may appoint a review committee consisting of three faculty members, with one designated as chair and a student in good standing from the same student category as the grieving student. This committee shall have the authority to interview individuals who may have information pertaining to the grievance and to request records and materials pertaining to the grievance. In a grievance procedure, all employees and students are obligated to provide requested information to the dean/associate dean/department head, or review committee. The committee shall forward its findings and recommendations to the convening dean who shall decide the case. The student may appeal that decision to the Provost who has the authority to settle all student grievances.

**English Fluency Policy**

In accordance with the laws of South Carolina, The Citadel ensures the English fluency of its teaching faculty through a two-stage review process.

1. During the interview process, each applicant will make an oral presenta-
tion before a group consisting of faculty members and students. Using the included form, each participant will evaluate the candidate’s English fluency and clarity of presentation. These evaluations will be a major factor in the selection process, and should a candidate who is ultimately selected be deemed by this evaluation to have a language problem, the extent of this problem, the support to be provided the candidate by the College in addressing this problem, and the expectations for improvement in English fluency will all be clearly stated in the offer of employment.

2. Should the English fluency of a member of the faculty be challenged by a student, standard procedures for student academic grievances as described above will be followed. If a review committee is called for, the native language of one of the faculty members will not be English.

Ownership of Intellectual Property

Preamble

The Citadel has among its primary purposes teaching, research, and the expansion and dissemination of knowledge. Products of these endeavors include the development and use of intellectual property. It is the policy of the College that its faculty, staff, and students carry out their scholarly work in an open and free atmosphere that encourages publication and creation of such works without constraint but consistent with applicable laws and College policy. This policy will be in accord with the guidelines and criteria published in The American Association of University Professors’ “Statement of Copyright” (Policy Documents and Reports. Ninth Edition, 2001, or subsequent editions).

Definitions

Directed Works are defined as those specifically funded or created at the direction of the College, and which may or may not include exceptional use of College resources. They are distinguished from non-directed works, which are pedagogical, scholarly, literary, or aesthetic works resulting from non-directed effort.

Exceptional Use of College Resources is defined as the provision of resources or support by the College for the creation of a work that is of a degree or nature not routinely made available to College employees. Sabbatical leaves, faculty research grants, and faculty development grants awarded by the College upon the recommendation of the Research, Faculty Development, or Sabbaticals Committees, although competitive, are routinely available to the faculty and are therefore deemed non-exceptional unless specifically designated otherwise by agreement between the originator and the Provost.

Policy

Ownership of intellectual property will reside with the originator, whether a member of the faculty, a member of the staff, or a student, unless: (a) the property is created at the specific direction of the College; or (b) the originator has made exceptional use of College resources in creating it.

At the time when the work is directed by the College or at the time when the College makes exceptional resources available to the originator of intellectual property, the Provost and the originator will together determine ownership and will negotiate a written agreement concerning that property. These determinations will be made on a case-by-case basis.
Confidentiality of Student Records

The Citadel complies with the Family Educational Rights and Privacy Act (FERPA), which affords students certain rights with respect to their education records. These rights include:

1. **The right to inspect and review the student’s education records within 45 days of the day The Citadel receives a request for access.**

   A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The Citadel official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Citadel official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. **The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.**

   A student who wishes to ask The Citadel to amend a record should write the official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

   If The Citadel decides not to amend the record as requested, The Citadel will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. **The right to provide written consent before The Citadel discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent.**

   The Citadel discloses education records without a student’s prior written consent under the FERPA exception for disclosure to “school officials” with “legitimate educational interests.” A school official has a “legitimate educational interest” if the official needs to review an education record in order to fulfill his or her professional responsibilities for The Citadel. A “school official” is a person employed by The Citadel in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff), or a person or company with whom The Citadel has contracted as its agent to provide a service instead of using Citadel employees or officials (such as an attorney, auditor, or collection agent). At The Citadel, “school officials” include the Board of Visitors; the faculty; and personnel in the Offices of the President, Provost and Dean of the College, Associate Provost for Academic Affairs, Associate Provost and Dean of The Citadel Graduate College, Registrar, Vice President for Finance and Business Affairs, Director of Athletics, Director of Admissions, and Commandant. In addition, the Provost (for academic records) and the Commandant of Cadets (for disciplinary records) may give specific cadets, by virtue of their cadet duty position, limited access to the educational records of other cadets. These cadets must first attend a FERPA briefing and sign a Statement of Understanding before being provided access to other students’ educational records.
The Citadel may also disclose appropriately designated “directory information” without written consent, unless a student has advised The Citadel to the contrary. “Directory information” is information that is generally not considered harmful or an invasion of privacy if released. Directory information includes student name, local and permanent address and telephone number, e-mail address, photograph, date and place of birth, major field of study, class schedule, full or part-time status, Dean’s List and Gold Star List, ROTC branch, dates of acceptance and attendance, years in school, anticipated date of graduation, degrees and awards received, graduation honors, academic and military awards, the most recent previous educational agency or institution attended by the student, cadet company and rank, duty status, class absence status, participation in officially recognized activities and sports, weight and height of members of athletic teams, U.S. citizenship, extracurricular activities, and residency status.

The Citadel may disclose directory information to parents, the public, and outside organizations without prior written consent. Outside organizations include, but are not limited to, companies that manufacture class rings or publish yearbooks. Students who do not wish to have directory information published must notify the Registrar within two weeks of the beginning of the fall semester each academic year. Requests to keep directory information confidential are valid only for the year in which they are made.

The Citadel will disclose to the alleged victim of any crime of violence the final results of any student disciplinary proceeding conducted by The Citadel against the alleged perpetrator of such crime. Both the accuser and the accused will be informed of the final outcome of any Citadel disciplinary proceeding based on an alleged sex offense.

The Citadel may also disclose to parents, without a student’s consent, alcohol or drug violations of either the College’s policies or local laws by students under 21 years of age.

The Citadel will also disclose, to the court, information from a student’s file if that student or the student’s parent has initiated legal action against the institution or if the institution has initiated legal action against the parent or student.

(4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by The Citadel to comply with the requirements of FERPA.

The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

A copy of the “Family Educational Rights and Privacy Act,” as amended, and details of The Citadel policy on maintaining and disclosing student records may be obtained from the Office of the General Counsel. Notes
STUDENT SUPPORT PROGRAMS, SERVICES, AND ACTIVITIES

The student support programs, services, and activities offered by The Citadel complement and support students’ academic development by . . .

. . . promoting discipline, responsibility, character development, and self-confidence;
. . . equipping students with skills necessary for academic success;
. . . developing leadership skills;
. . . enhancing ethical development;
. . . increasing cultural awareness and the appreciation of diversity;
. . . encouraging students to become responsible professionals in their chosen fields; and
. . . providing activities that promote personal health and physical fitness.

The intent of the student support programs is to encourage the development and integration of personal values and habits that will remain with the individual for life.

Student Advisory and Counseling Services

Academic Faculty Advisor

Each student is assigned a faculty advisor who provides counsel concerning course selections and options within particular courses of study. Though students are encouraged to visit their advisors throughout the academic year, formal planning sessions are designated each semester during preregistration and registration.

Tactical Officer

TAC stands for Teacher, Advisor, and Coach. TACs serve as the primary integrator for cadet leader development and are the key assessors of cadet performance. They are available to coach and assist cadets in the execution of their leadership roles. TACs seek out reports from faculty, staff, and coaches to assist them in providing cadets with a holistic assessment of their strengths and weaknesses and regularly counsel and mentor cadets on their progression through the four-year model. Finally, TACs certify cadet performance in the Military, Moral-Ethical, and Physical Effectiveness Pillars.

Company Academic Advisor

Each cadet company is assigned a specially chosen member of the faculty or staff who works closely with the company tactical officer and the cadet chain-of-command to ensure that academic and military requirements are compatible and that cadets are aware of academic resources and services available to them on the campus.
Prelaw and Premedical Advising Services

The Citadel provides counseling and guidance to all students who have an interest in attending law or medical school after graduation. Students interested in a law career should seek advice early in their college careers from the chair of the Prelaw Advisory Committee. Students interested in medicine and related fields should seek early advice from the chair of the Premedical Advisory Committee. Each committee is composed of faculty members from academic disciplines related to these professional fields.

Career Center

The Citadel Career Center has a primary mission of providing the training and resources that enable students to make well-informed career decisions. The first step in this process is providing a career assessment for incoming students to help them in selection of majors and in identification of career paths of greatest interest for further exploration.

The Career Center provides group and individualized instruction and assistance to students in exploring career options, the career planning process, resume construction, internships and summer employment, exploring graduate and professional school, networking, interviewing, the job search process, and success in the first job. A comprehensive website with related information is provided. Students should participate in all training sessions and follow career planning guidelines provided on the Career Center website.

The Career Center coordinates biannual Career Fairs (one per semester), information sessions, workshops, information sessions, and other career-related events. It also provides an online job board and resume database which are used by many employers to advertise opportunities and find candidates. It is important that students take full advantage of these events and services. The office distributes a wide variety of career planning and career search information to students, in-house and online. A computer lab is available and used from real-time career counseling during allotted drop-in hours.

The Career Center also coordinates the “Citadel in DC” program each summer, a 10-week opportunity to live, learn and intern in Washington, DC.

The Career Center is located at 573 Huger Street. Please visit www.citadel.edu/career for additional information.

Religious Support

Pastoral support and counseling is an important component in the overall design of The Citadel’s advisory program. The Chaplain to the Corps of Cadets and the campus ministers are available to assist students with pastoral support and counseling, which includes dealing with life problems, in the context of religious faith. With the chaplain and campus pastors, students are assured of care, concern, and confidentiality, whatever their situation.

Counseling Center

The Citadel Counseling Center provides professional, confidential short-term counseling to currently enrolled students at no charge. Personal and substance abuse prevention counseling are available by appointment. In the event of an
emergency, counselors are also available to provide crisis intervention without an appointment. In addition, the Counseling Center staff provides referrals for off-campus psychiatric evaluations and/or long-term counseling.

The Citadel Counseling Center provides individual assessment, including the administration and interpretation of personality and interest inventories. Students may complete these assessments in an effort to address personal or career concerns presented in individual counseling.

The Citadel Counseling Center is located at 203 Richardson Avenue behind Bond Hall. Students are encouraged to contact the Counseling Center directly to schedule appointments for counseling or assessment.

Alcohol and Substance Abuse Prevention Services

The Counseling Center provides evaluation and assistance in the treatment of alcohol and substance abuse. Strategies utilized include an in-depth alcohol and substance use evaluation, individual short-term counseling, an online alcohol education course, and appropriate referrals for long-term outpatient and inpatient treatment. These services, which are available to currently enrolled students, are aimed at reducing a student’s risk for developing serious problems associated with the abuse of alcohol and other substances. In addition, any cadet who is mandated by the Commandant’s Department to complete a minimum of two meetings with a counselor will receive an in-depth alcohol and substance use evaluation and recommendations for additional services are provided to the cadet as appropriate.

Students are encouraged to contact the Counseling Center directly to schedule appointments for individual counseling.

Instructional Support Services

Daniel Library

The mission of the Daniel Library and The Citadel Archives and Museum is to deliver exemplary services for learning, decision support, and scholarship that inspire and excite our students, faculty, staff, administration, and alumni; to provide innovative information leadership to administrative and support units; to preserve The Citadel’s unique and important information assets; and to offer noteworthy learning experiences and professional research services to Charleston, the Lowcountry, the state of South Carolina, and beyond.

During the academic year, the Daniel Library is open seven days a week. Visit the Daniel Library website to access library online resources (https://library.citadel.edu).

The Daniel Library provides organized access to professionally curated research and information resources and creative technologies. The collection consists of 174,367 print materials; 432,227 electronic books; 168 online full-text and citation indexes; and 821,915 electronic full-text journals and print journal subscriptions. In addition, the Library holds DVDs and streaming videos, microforms, maps, and government documents. Through PASCAL Delivers, interlibrary loan, and document delivery, the Library is able to provide free and efficient access to materials outside its own collections.
To enable students to make the best use of the array of resources and services available to them, the Library provides instruction classes about locating, evaluating, and effectively using information along with individual research assistance via phone, email, text, online chat, and personalized research consultations. In the required First-Year Experience course (CSI or LDRS 101), students learn to access Library resources, evaluate information for authority, accuracy, and level of scholarship, and incorporate appropriate information into research projects. Course-specific research classes organized by liaison librarians focus on the unique information needs of each student and address specific research requirements of each course.

The Daniel Library facilities feature collaborative spaces and individual and group study rooms. Students may reserve a study room for up to two and a half hours per day. Room reservations can be made online and in advance (https://citadel.libcal.com/booking/study). Facilities also include a wireless network accessible with Library laptops or students’ personal laptops and mobile devices. Students may also check out laptops and use them in the library. All computers allow access to electronic resources and the Internet, as well as software for word processing, spreadsheets, databases, and presentations. Examples of site licensed software available to students are the New York Times, and Wall Street Journal.

The Daniel Library is The Citadel Makerspace. The mission of this space is to foster innovation, ingenuity, and creativity through the exploration of new and emerging technologies in a collaborative environment, regardless of one’s department or level of knowledge. Students can have models 3D printed or make use of a mini CNC milling machine, high-powered PCs and Macs with creative software, a VR Headset (orientation and waiver required), a vinyl cutter, digital sewing machine, thermal binder, and other creative project materials. More information about the Makerspace can be found at https://library.citadel.edu/makerspace. Students can also check out circulating technology with their Citadel OneCard. Supplementing exploration and project creation beyond the Library’s walls, available technologies include: GoPro cameras, headphones, digital recorders, Arduino & Raspberry Pi kits, camcorders, and more.

The Citadel Archives

The Citadel Archives, located on the 3rd floor of the Daniel Library, houses collections relating to the history of The Citadel. Dating back to The Citadel’s founding in 1842, holdings include institutional records and publications, letters, diaries, speeches, photographs, audiovisual recordings, and much more. We offer instruction with primary sources and digital humanities, reference assistance, and welcome collaboration with faculty, staff, students and the community. Visit our website (library.citadel.edu/archives) to access our guide to collections and our digital collections site. To ask a question or schedule an appointment, email archives@citadel.edu.
The Citadel Museum

Also on the 3rd floor of Daniel Library, The Citadel Museum features artifacts and images representing the history of The Military College of South Carolina from its founding in 1842 to the present. Arranged chronologically, exhibits feature the military, academic, athletic and social aspects of cadet life. Cadet uniforms are popular items, as well as Citadel rings dating back to 1895. Also on display are two swords that belonged to alumni: Col. Charles Courtenay Tew, The Citadel’s first honor graduate of 1846, and Maj. James B. White, Class of 1849 and Citadel President from 1861 to 1865. Admission is free, and the Museum is open during Library operating hours. View select artifacts, images and manuscripts on our digital collections site (archives.citadel.edu/digital).

Computing Resources

The Citadel provides all students with an email account and access to Microsoft Office. The campus has over a dozen computer labs located in classrooms and a small computing space in each of the barracks. All labs are equipped with personal computers and networked printers. Most of the college’s 100+ classrooms and auditoriums are equipped with multimedia technology, such as projection systems and interactive whiteboards.

Information Technology staff members assist students at the IT Help Center, located on the second floor of Bond Hall. The Help Center is open from 8:00-9:00 M-TH, 8:00-5:00 Friday, 9:00-3:00 Saturday. The Multimedia Service’s staff, located in the Multimedia Studio in Bond Hall, assists students with designing and editing graphics, creating computer and poster presentations, and creating and editing video and audio projects.

The Citadel has a high-speed campus-wide network that connects virtually every computer on campus to the Internet. Much of the campus is also configured with wireless networking.

Most cadets bring a personal computer of their own to use in the barracks. Information Technology staff and student workers assist to answer questions and solve computer problems per the IT Technical Assistance Policy.

The college encourages students to review The Citadel’s website prior to purchasing a computer or software application in order to: review the minimum requirements for compatibility with The Citadel’s network, learn about academic pricing discount opportunities, and understand warranty information for technical support.

Review The Citadel’s Information Technology Computing website at www.citadel.edu/its or contact the IT Help Center staff at 1-843-953-HELP (4357) for more information.

Office of Study Abroad, International, and Domestic Programs

The Office of Study Abroad, International, and Domestic Programs works to make study abroad programs an integral part of students’ academic, leadership, social, and personal development during their time at The Citadel. By making international education both meaningful and accessible, Citadel graduates will have broadened their perspectives and will thrive as principled leaders in a global society.
Currently, the Office of Study Abroad offers a myriad of study abroad choices to fit the student’s individual ambitions, academic needs, and interests. The duration and types of programs include a variety of experiences such as a full semester abroad, summer programs, international internships, service learning, and exchange programs. All study abroad programs, both short- and long-term, are validated by the Office of Study Abroad, International, and Domestic Programs and are included on the student’s experiential transcript. It is the policy of The Citadel that students will study abroad usually only during the summer, fall, and spring-break terms. Students are encouraged to come by the office where they may view resource materials, receive guidance on available programs, and receive assistance on the study abroad application process.

Under the Office of Study Abroad, International, and Domestic Programs is the Office of Fellowships. This office identifies superior students and helps them prepare for national and international fellowships. Experienced faculty in each department find and enhance emerging talent. Promising candidates are aided in cultivating their areas of expertise by the Star of the West International Summer Scholarship which supports overseas travel, advanced study, independent research, and field experience.

The Office matches the student’s ability and interest with appropriate opportunities. The Director serves as the campus representative for various granting organizations, disseminates information, counsels student candidates, collects applications, schedules interviews, certifies nominees, and offers a preparatory course for qualified students who plan to apply for nationally competitive fellowships. The Office coordinates all campus Fulbright initiatives, publicizes available grants, and provides assistance to graduate students and faculty at all stages of the applications process. The office is located in Richardson 202, 2nd floor, where cadets, graduate students and faculty are encouraged to visit.

**FELP 301  Fellowship Preparation**  Three Credit Hours

This course helps prepare highly qualified freshmen, sophomores and juniors to apply for nationally-competitive fellowships including Fulbright, Truman, Rhodes and Marshall scholarships. The focus is on developing the critical thinking skills that are vital in preparing for such awards. Based on similar courses at West Point and the Naval Academy, this course is seminar-based, including guest lectures by foundation representatives and past fellowship recipients. Participants will target pertinent awards, draft curriculum vitaes, personal statements and project proposals. Participants must have a 3.3 GPA and permission from the instructor to be admitted into the course offered each spring semester.

**Student Success Center**

The Citadel Student Success Center (SSC) provides support to Citadel students through the following programs:

- Academic Coaching Program
- Athletic Academic Services
- Mathematics Lab
- Services for Students with Disabilities
- STEM Lab
Subject-Area Tutorial Program
Supplemental Instruction Program
Writing Lab

These programs are available to all Citadel students. The staff is comprised of professional tutors, graduate assistants, undergraduate students, and full-time personnel. Students may set up an appointment by emailing the ASC at asccenter@citadel.edu, calling 843-953-5305, or stopping by 117 Thompson Hall.

For further information about the ASC and its programs, please visit our website at www.citadel.edu/asc.

Office of Multicultural and International Student Services

The Office of Multicultural and International Student Services (MISS) promotes an appreciation for diversity among students, faculty, and staff. Multicultural Student Services encourages an attitude that celebrates multi-ethnic perspectives of various cultures and backgrounds. Programming and activities sponsored by the office are designed to increase the involvement of minority students in extracurricular activities; to assist first-year and transfer students with the transition into the Corps of Cadets; to enhance interaction and communication among all students; and to enable students of color to celebrate their cultural heritage with pride.

Assistance is offered to students, faculty, and staff who have concerns relating to race relations, campus diversity, or multicultural awareness. Resource materials including videos, study guides, and directories, are available for use by cadet companies, classroom instructors, and clubs and organizations.

The MISS Office offers a variety of services for international and American students. The office provides freshmen orientation programs, immigration advising and assistance, and helps with personal and academic concerns for international students. The office further serves as a liaison with embassies, acts as an advocate for international students with campus offices, organizes off-campus cultural programs, and sponsors international activities.

Religious Activities

College years are exciting times of growth and challenge, when a young person’s faith and religious heritage are examined in the light of new experiences and perspectives. While college years are occasionally marked by a “crisis of faith,” they frequently are also marked by a deepening commitment to life-long religious values. The Chaplain, who also serves as the Director of Religious Activities, is committed to assisting in that deepening commitment.

Working closely with the Cadet Chaplain in the coordination of all religious activities are the Cadet Regimental and Battalion Religious Officers. Additionally, the college is fortunate to have twenty-three campus pastors or ministry directors representing Catholic, Orthodox, Jewish, Muslim and fourteen Protestant denominations and Para-Church ministries. These leaders work together to maintain a strong religious foundation for the ethical and moral pillar, one of the four pillars in The Citadel’s whole person concept. Faith group meetings are held each Monday evening and Para-Church groups meet each Thursday evening for study, fellowship, and worship. While attendance at all chapel or
campus religious activities is optional, all cadets are encouraged to explore their faith as a part of the growing process of their development as leaders.

**Denominational Faith Groups:**

- African Methodist Episcopal
- Baptist Collegiate Ministry
- Catholic
- Anglican
- Episcopal Church SC
- Jewish Student Union
- Latter-Day Saints
- Lutheran Student Movement
- Muslim Student Association
- Orthodox Christian Fellowship
- Presbyterian Student Association: Presbyterian (PCUSA)
- Reformed University Fellowship: Presbyterian (PCA)
- Wesley Foundation (United Methodist)

**Para-Church Nondenominational Groups:**

- VALOR (Campus Crusade for Christ-CRU)
- Campus Outreach
- Officers’ Christian Fellowship
- The Navigators
- Fellowship of Christian Athletes

**Campus Worship**

Built in 1936, Summerall Chapel has held a special place in the life of the Corps of Cadets since its dedication. In the first place, it is for many of our cadets a place of sanctuary, a safe haven away from the constraints and stresses of cadet life. Secondly, it is, of course, a place of worship. Throughout the school year, there are weekly Protestant and Catholic services of worship on Sundays and an Anglican worship service on Monday evenings. Cadets provide dynamic vibrant leadership in all of these services. Finally, it is for all who enter a place of prayer. It’s not uncommon throughout the week to find staff and faculty sitting in prayer. The inscription on Summerall Chapel, “*Remember Now Thy Creator in the Days of Thy Youth*” (Ecclesiastes 12:1), embodies the focus of ministry at the chapel and its importance to cadets who need a source of strength beyond their personal means.

**Citadel Chapel Choirs**

Three cadet chapel choirs enhance services of worship on campus. They are the Catholic Chapel Choir, the Interdenominational Protestant Choir and Gospel Choir. These three choirs combine for special events each year such as Parents’ Day, Homecoming Sunday, the Christmas Candlelight Services, and Corps Anniversary Sunday.
Greater Issues Series

The Greater Issues Series presents two or more major addresses each academic year. In 1954, the series was inaugurated by General Mark Clark to enhance the preparation of Citadel cadets for roles as responsible members of our society. Since then, these addresses have brought to The Citadel an impressive group of distinguished speakers including Presidents of the United States, American and foreign dignitaries, scholars, diplomats, important military figures, and business leaders.

Fine Arts Series

Inaugurated in 1965, the Fine Arts Series has presented annually a wide variety of programs which have been both entertaining and culturally illuminating. All fourth-class and third-class cadets are encouraged to attend one approved fine arts performance each semester.

Musical Organizations

The Citadel Regimental Band and Pipes provides music for concerts, parades, reviews, and other official ceremonies both on and off campus. Music for basketball games is provided by The Citadel Pep Band, a group of members from within the Regimental Band.

Academic Publications

Founded in the spring of 1993, El Cid is the publication of The Citadel’s Tau Iota Chapter of Sigma Delta Pi, the National Collegiate Hispanic Honor Society. This publication is a refereed journal in Spanish that publishes select undergraduate and graduate creative writing. Only members of Tau Iota may be selected for the editorial team.

The Gold Star Journal, The Scholarly Journal of the Corps of Cadets and Citadel Graduate College, publishes nonfiction papers from any discipline. This journal is produced by a staff of cadets for Corps Day.

The Journal of the Scipio Africanus Society is published annually by a staff of cadets and serves as an outlet for cadet independent research in international affairs.

The Shako documents the literary and artistic achievements of Citadel cadets and graduate students. All submissions are compiled, edited and published annually by cadets for distribution throughout the Citadel community.

The Honor System

The Cadet Honor System provides a unique contribution to the overall developmental process of the Citadel Experience. As an integral part of Corps life, its purpose is to promote ethical growth and inculcate a sense of integrity in Citadel graduates so that they instinctively conduct themselves in an honorable manner. The Honor Code states that a “cadet does not lie, cheat, or steal, nor tolerate those who do.” The code is enforced and supervised by a Cadet Honor Committee composed of First Class cadets who are elected in the fall.
of their junior year by the Fourth, Third, and Second Class cadets within their companies. These Honor Committee representatives are responsible for educating and assisting their fellow cadets on the Honor System and interpreting the honor code. When a cadet is reported for an honor violation, the circumstances are thoroughly investigated by members of the Honor Committee. If there is a prima facie case established against the cadet, he or she appears before an Honor Court composed of 10 members of the Honor Committee. A cadet accused of an honor violation is entitled to cadet counsel, and cross examination is allowed. A finding that a cadet has committed an honor violation requires a unanimous secret vote by the Honor Court. If a cadet is found to have committed an honor violation, and if the President confirms the Honor Court's decision, the cadet is expelled from the Corps of Cadets. Under rare circumstances, the cadet may be granted leniency from the punishment of expulsion. The Honor Committee is responsible directly to the President of the college. A faculty advisor assists the Honor Committee. This officer provides guidance to the Honor Committee and acts in an advisory capacity to the court at each Honor Court trial.

**Department of Experiential Learning and Cadet Activities**

This department, with offices located in Mark Clark Hall, provides activities and services for cadets to develop outside the classroom that allow them to broaden their talents and interests. Major activity areas include publications, events, student leadership experiential learning opportunities, monthly blood drives, clubs and organizations. The department offers services to cadets, as well, such as the Ride-Drive Program, social media pages, and community service opportunities.

**Cadet Activities Publications**

*The Brigadier* newspaper is designed and laid out by cadets. The newspaper is delivered in an online format with print copies available for special editions. *The Sphinx* yearbook is the college yearbook of The Citadel. It is published annually in the spring by a staff of cadets. This publication serves as a semi-official record of the cadets’ year. The cost of this publication is incorporated into the spring semester tuition.

*The Guidon*, the handbook for the fourth class cadets, is published annually and is available online in early summer for the incoming freshmen. On Matriculation Day, each incoming cadet will receive a hard copy. This book contains a complete description of the activities of the Corps of Cadets, Citadel history, customs and courtesies, and duties and responsibilities of fourth class cadets.

**Clubs, Groups and Organizations**

Membership in a wide variety of clubs, groups and organizations is available to all Citadel students. All 100+ clubs fall under the four pillars of The Citadel: Academic, Military, Character and Physical. Among these are discussion groups, professional societies, military groups, athletic clubs and religious groups. The span of these activities is so broad and so varied that all Citadel students should be able to find organizations that fit their interests and talents.
Intramural, Club and Recreational Athletics (ICRA)

The purpose of the ICRA program is to provide and promote safe and healthful means for competition, exercise, physical fitness and recreational pursuits for students, faculty and staff. ICRA is a division of the Department of Health and Human Performance (HHP).

Intramural Athletics

Citadel Intramurals are an integral part of cadet life with year-long competitive activities in individual sports and cadet company team sports. Cadet companies compete annually for the Board of Visitors Trophy, awarded to the Commanding Officer of the company accumulating the most intramural points.

Club Sports

Citadel Club Sports provides structure for student-run competitive sport teams not governed by the NCAA or Southern Conference, and other sports-related activities that may not be fully supported by the academics of HHP or events of Citadel Intramurals. Club Sport athletes are not part of Corps Squad.

Physical Recreation

The primary purpose of Deas Hall is to provide instructional support for students in the Department of Health and Human Performance (HHP), and to support activities of Intramural Athletics and Club Sports. Deas Hall is otherwise available to all students, faculty and staff.

More information can be found at: www.citadel.edu/icra.

Health Services

The Citadel Infirmary provides acute care services for cadets in the South Carolina Corps of Cadets. These services include outpatient medical clinics on weekdays, a walk-in nurse clinic after hours and on weekends, and round-the-clock inpatient care (36 beds) during the academic year. In the summer, limited outpatient services are provided for cadets enrolled in summer programs. Inpatient services resume on 1 July.

The Infirmary staff includes a primary-care physician, a family nurse practitioner, a part-time orthopedic surgeon, staff nurses, nurse aides, an administrative assistant, and a receptionist. Certified athletic trainers conduct daily Sports Medicine clinics in the Infirmary to evaluate and treat orthopedic injuries. More serious injuries are referred to the Orthopedic Clinic (Monday and Friday mornings). Athletic trainers also provide coverage for intramural and intercollegiate athletics, on-campus military training, and club sports activities.

Infirmary services are covered by the cadet Infirmary fee. A small inpatient charge is added for daytime and overnight admissions. Supplemental services such as immunizations, medications, lab work, X-Rays, and ECGs are provided for cadets at our cost and are applied to the cadet’s OneCard Restricted Account. Prescriptions for medications not administered by the Infirmary are delivered by a local pharmacy which bills the cadet’s insurance or charges the cadet’s
OneCard account. If desired, the Infirmary secretary can provide an itemized list of Infirmary charges for parents to file for insurance reimbursement. The Infirmary is not staffed to file insurance claims.

Cadets are required to carry student health insurance for all semesters they are present on campus. Student insurance is mandatory to defray the costs of hospitalization, emergency care, ambulance transportation, and/or specialty medical and surgical care. Charges for services not provided by the Infirmary must be settled directly with the medical provider. Cadets are required to notify the Infirmary immediately of any changes in insurance coverage.

The Citadel does not have contracts with any off-campus hospitals, urgent-care centers, pharmacies, or medical/surgical/dental providers. In the event of an emergency, two large medical centers are located within two miles of the campus and EMS ambulances are on call 24/7 for transport. For more information on insurance, please visit the website:http://www.citadel.edu/root/infirmary-incoming-students/insurance-info.

**Department of Public Safety**

The mission of the Department of Public Safety is to “ensure the safety and security of all persons and property on The Citadel campus.” Public safety officers are state-commissioned law enforcement officers operating under the authority of the State Law Enforcement Division (SLED) with jurisdiction both on and off campus for incidents occurring on Citadel property. The Department of Public Safety is also responsible for enforcing campus parking regulations. Campus police may be reached at 953-5114. In an emergency, dial 811 from any campus phone.

**Employment**

The time of a cadet at The Citadel is filled with duties and obligations; however, there is opportunity for campus employment for cadets who believe they can manage the extra responsibility. The College offers a limited number of part-time positions with various campus activities as well as work-study jobs which are available to students with financial need. Employment is designed to provide for a modest portion of college expenses.
Cadet Facilities

Mark Clark Hall
Mark Clark Hall is named after General Mark W. Clark who served as president of The Citadel from 1954-1965. The campus post office, barber shop, a convenience store, a lounge for upper class cadets, and a Barnes & Noble bookstore are located on the first floor. Buyer auditorium, the Greater Issues Room, a lounge for fourth class cadets, and the offices of the Department of Experiential Learning and Cadet Activities are found on the second floor. The Honor Courtroom is located on the third floor, as are the offices of the Catholic Chaplain, the Episcopal Chaplain, and the campus photography department.

Beach House
The Colonel Robert R. McCormick Beach Club of The Citadel is located oceanfront on the Isle of Palms, about a half hour’s drive from the campus. The five-acre property includes a two-story beach house, the Blue & Grey Pavilion, a sand volleyball and basketball court, and shower and locker facilities. Beach access and parking are available to cadets, students, faculty, staff, Citadel Alumni Association Lifetime Members, and annual donors to The Citadel Foundation or The Citadel Brigadier Foundation above specific levels. Additionally, the venue may be rented for daytime or evening events through the Office of Event Management.

Boating Center
The Citadel Boating Center membership is available to students, faculty, and staff. Preference is given to students in the use of the center’s facilities. The club fleet consists of canoes, small sailboats, and outboard motorboats. Boating Center facilities consist of a clubhouse, dockage, marine railway, sail loft, and work area for maintenance and repair of small boats. Storage of privately owned boats is available for a small fee.
Military Policies

General

The Citadel is justly proud of its military training program which contributes significantly to the State of South Carolina and the nation in the form of military and civilian leadership. The Citadel is one of six senior Military Colleges remaining in the country. Citadel graduates are adding to the rich heritage of their alma mater as officers in the armed forces and as leaders in the state and nation.

The ROTC training at The Citadel is conducted by active duty commissioned and noncommissioned officers of the U.S. Army, U.S. Navy, U.S. Air Force, and U.S. Marine Corps. These active duty military personnel are organized into the Department of Military Science, the Department of Naval Science, and the Department of Aerospace Studies. Cadets are encouraged to seek a commission in one of the armed force services; however, they are not required to accept a commission.

Commandant of Cadets

The Commandant of Cadets oversees the military aspect of all cadet life. Along with the Chief of Staff, the Assistant Commandant for Discipline, the Assistant Commandant of Operations and Training, the Assistant Commandant for Leadership Programs, the Commandant’s Sergeant Major, and his Special Staff, the Commandant designs, plans, and executes various leadership programs and activities for the Corps of Cadets. All cadet discipline, privileges, leaves, and special recognitions are managed inside this department. The Commandant and his team of TAC (Teach, Advise, Coach) Officers exercise the implementation of all Citadel policies as well as Cadet Regulations in their supervision of life in the barracks, through the teaching, advising, and coaching of all cadets. As a senior college Vice President, the Commandant is in continuous communication with the College President on all matters pertaining to the administration, conduct, training, and discipline of the Corps of Cadets.

Discipline

As a military college, The Citadel sets high standards of conduct and discipline. By instruction and example, cadets are taught to be neat in person and in uniform. Daily inspections of rooms ensure cleanliness and good order. Through individual personal contact, group meetings, and training, cadets are encouraged to uphold the traditions of The Citadel and the standards of honor, duty, and respect which are the core values of the college.

A cadet who commits an act off-campus that reflects adversely on The Citadel or the Corps of Cadets may be punished as if the act had been committed on-campus should the alleged misconduct violate the cadet disciplinary code in the following manner:

- potentially endangers the health, safety, or welfare of members of the campus community, or
- potentially places college property at risk of damage, loss, or destruction, or
• occurs at a time when the cadet represents the College in an off-campus activity, or
• involves conduct that charges one or more of the following:
  a felony act; a crime of moral turpitude; an act of violence; an act that
  involves the possession, use, or sale of an illegal drug or alcohol; or,
  an act involving racial or sexual harassment, sexual assault, or results
  in the student being found guilty in a court of law or the student
  declines to contest such charges although not admitting guilt (e.g. no
  contest or nolo contendere).

During periods of furlough, the cadet disciplinary system may apply if the conduct meets these criteria.

Leadership

Leadership, initiative, and character are developed by placing cadets in positions of responsibility within the Corps of Cadets. In addition, all cadets are engaged in the Leadership Training Program which covers a wide range of topics to develop problem-solving techniques and expand general knowledge in real-life situations. These value-added sessions are conducted in classroom and practicum environments.

All cadets live in the barracks. From reveille to taps, every hour of the cadet’s time is programmed. Regular habits of study and living, attention to duty, obedience to authority, and appreciation for order are considered among the most valuable features of The Citadel education. While some graduates enter the military profession, thousands in all walks of civilian life attest to the high value of the training received at this institution.

The daily routine is regulated by the Corps of Cadets Training Schedule and the Commandant’s Yearly Training Plan and supported by the Cadet Regulations which include the Blue Book and the White Book.

Commandants Classification of Cadets

In terms of policies and procedures inside the Commandant’s Department, cadets are classified according to the number of years they have been a cadet:

C1 represents a freshman in his/her first year
C2 represents a cadet in his/her second year
C3 represents a cadet in his/her third year
C4/5 represents a cadet in his/her fourth/fifth year

These classifications have NO RELATIONSHIP to Academic Status.

Allowances of Demerits

Cadets who accumulate more than 20 demerits per month in their senior year, 22 per month in their junior year, 25 per month in their sophomore year, or 30 per month in their freshman year, will be declared conduct deficient. Cadets repeating any part of the fourth class year are allowed only 25 demerits per month. Conduct deficient cadets are not allowed to take normal leaves or passes and are required to serve one hour of punishment for each demerit over the specified limit. Any cadet exceeding the allowed limit of demerits or other punishments may be discharged.
Clothing/Luggage

All cadets are required to furnish their own sheets, pillows, and pillow cases. A bedspread and blanket will be issued to each cadet when they arrive. Beds and mattresses are provided by the College. Lists of required and suggested items for freshmen to bring can be found on The Citadel webpage inside the *Fourth Class Success Packet*. It is imperative that items be purchased prior to arrival. Training begins immediately and there is no time provided to acquire anything missing. Policies require graduating seniors to retrieve their stored items no later than 15 days following commencement. After that time items will be removed and donated to local charity. It is not the responsibility of warehouse personnel to notify cadets having stored items.

Cadets are advised to bring inexpensive trunks and suitcases. Luggage must be stored in the Central Warehouse Facility on campus. Only one overnight bag for weekend or athletic trips may be kept in a cadet’s room. On a limited basis, excess luggage may be stored in the Central Supply Facility at the risk of the owner.

Luggage and boxes of supplies may be shipped to The Citadel in advance. They should be sent by commercial transportation and clearly identified with the following address: Cadet’s Full Name, Central Supply, The Citadel, 171 Moultrie Street, Charleston, South Carolina 29409.

Automobiles

All vehicles operated on campus by cadets must be registered with the Commandant’s Department. Each cadet classified as C3 or C4 is authorized to have an automobile at The Citadel. No other cadet is allowed this privilege regardless of academic standing. Registration is a privilege, not a right. Registered vehicles must meet current home-state requirements with regard to registration, insurance, and safety inspections. All vehicles operated and parked on campus are at the owner’s risk. All unregistered or illegally parked vehicles are subject to ticketing and towing at the owner’s risk and expense. Certain conduct infractions may affect a cadet’s ability to maintain an automobile on campus.

Parking fees are charged for all cadet parking. Each registered vehicle will be assigned to a specific, 24 hour-a-day campus property lot. A set of decals for this lot will be affixed to each registered vehicle, which can *only* be parked in the lot designated. Cadets may park in any space inside that lot except for those assigned to specific leadership positions. These reserved spaces will be identified around each barracks. On major college weekends, cadets may be required to move their vehicles to other college procured locations to allow for family, alumni, and guests to park on or near the main campus.

**NO CADET IS ALLOWED TO PARK IN THE IMMEDIATE VICINITY OF THE CITADEL.** This area is defined by Spring Street on the south, Rutledge Avenue on the east, and St. Margaret Street on the north. Parking in this area will result in ticketing and possible towing by the Charleston City Policy and/or disciplinary action from the Commandant’s Department for the cadet. 4th class cadets are NOT authorized to have, maintain, drive, or park an
automobile on The Citadel campus or within this prescribed area at any time during their freshman year. They should not bring a car to Charleston.

Two- or three-wheeled motorized vehicles may not be operated on campus.

Reserves and National Guard

Cadets may become members of Army, Navy, Air Force, or Marine Corps Reserves or National Guard (Army or Air). Students who join these organizations should consider joining local units in the Charleston area for ease of transportation and conducting business. Although Reserve and National Guard duty is a priority responsibility, cadets must be aware of their academic and Citadel military responsibilities and make all efforts to ensure that conflicts are kept to a minimum.

Leave

It is expected that parents will not ask for special leave for their sons or daughters except in cases of extreme emergencies. In every case, the decision is left to Citadel authorities as to whether the circumstances warrant the granting of the leave.

EMERGENCY LEAVE.

Emergency leave may be granted in the event of death or critical illness of a member of the cadet’s immediate family.

Duration of this leave will be predicated upon distance and time required but should normally not exceed five class days. The immediate family includes parents, grandparents, brothers, sisters, and the permanent resident members of the family.

Critical illness is defined as an illness of such proportions that death may be imminent.

SPECIAL LEAVE.

Special leave normally may be granted upon request of the family or guardian for events/activities which involve his/her immediate family.

Cadets may also be granted special leave for such unusual business affairs as cannot be arranged by correspondence but require the presence of the cadet in person. In all cases, the final decision rests with the Battalion TAC Officer.

OTHER LEAVE.

The Citadel has a weekend and overnight leave policy based on cadet's C-STATUS and includes requirements for maintaining academic, physical, and conduct proficiency. Fourth class cadets are not authorized overnight or weekend leaves during the first semester.

Furloughs for the Corps of Cadets are scheduled throughout the year. They include Fall Furlough (November), Winter Furlough (December-January), and Spring Furlough (March). Specific dates for these can be found on the college calendar. Cadets may depart after their last class in the case of Fall and Spring Furloughs which always begin on a Friday and end on a Sunday. CADETS MAY NOT DEPART EARLIER. Parents are highly discouraged from purchasing tickets that require early departure. Cadets
will not be allowed to leave. In the case of Winter Furlough, cadets may depart after completing their last exam. Return times from all furloughs are posted on the Commandant’s Department website accessed from The Citadel Home Page. It is imperative that ALL cadets return not later than the published accountability formation.

MEDICAL SERVICES.
Except in an emergency occurring on leave requiring immediate attention, a cadet will not arrange for or receive professional treatment from doctors or specialists without the knowledge of The Citadel Physician. Applications for any special leave required for such treatment will be submitted to The Citadel Physician and, if approved, will be forwarded by The Citadel Physician to the Commandant.

Cadets who are receiving medical care under the auspices of a private doctor will in all cases report the nature of the treatment, to include the illness and prescribed medication, to The Citadel Physician.

SPECIAL MEDICAL AND DENTAL SERVICE.
(1) Dental work, special eye examinations, etc. should be scheduled during the summer, winter, or spring furlough periods.
(2) If the services of a local dentist, oculist, doctor, or other specialist are deemed necessary, cadets will make their own appointments; however, they must inform The Citadel Physician. If desired, the Infirmary will schedule the required appointment for the cadet.

The Fourth Class System

The purpose of the Fourth Class System at The Citadel is to lay the foundation, early in a cadet’s career, for the development of those qualities of character and discipline implied in the mission of The Citadel as a military college—to educate principled leaders with an alert mind and a sound body who have been taught high ideals, honor, integrity, loyalty, and patriotism; who accept the responsibilities which accompany leadership; and who have sufficient professional knowledge to take a place in our competitive world.

These personal qualities must be deeply ingrained in individuals so that neither time nor troubles will diminish their respect for complying with the customs and traditions set forth for the fourth class cadets’ conduct. Self-discipline and self-evaluation develop graduates whose integrity and sense of duty cause them to serve selflessly beyond the prescribed limits of their tasks.

The Fourth Class System is both difficult and demanding. It represents an abrupt change from the life normally experienced in the home and encompasses the period from the cadet’s arrival for his or her first year at The Citadel until determined by the Commandant of Cadets and Cadet Leadership. It is administered professionally and requires a full measure of mental preparedness and physical endurance.

Because of the nature of the new cadets’ training during their first weeks at The Citadel, physical demands are great. Experience indicates that the cadets who, prior to admission, have conditioned themselves physically are best able to meet the training requirements.
At the time of their medical examination, cadets should consult with their physician regarding their body weight. Particular attention should be given to estimated percent body fat, which provides a much more accurate figure for determining proper body weight than height/weight charts. If body weight loss appears to be indicated, cadets should follow the physician’s advice relative to reducing caloric intake and increasing caloric expenditure.

The Charleston climate is generally conducive to year-round outdoor physical activity; however, the hot, humid conditions of August and September present several problems worthy of consideration. It is, therefore, important that cadets prepare themselves by controlled exposure to similar conditions during exercise. Preparation guidance can be found in the Fourth Class Success Packet on The Citadel home page.

In addition, each applicant for entry into The Citadel should be assured through a medical examination that there is no history of physical ailments which could possibly cause discharge due to inability to participate in the Fourth Class System.

The Fourth Class System by nature appears arbitrary on the surface. It demands prompt and unquestioning obedience of authority through the use of a collection of customs and traditions. However, each of the elements or customs has a special purpose in furthering a cadet’s development.

The system includes standing at a rigid position of attention, turning square corners when walking, undergoing inspections before formations, learning various items of fourth class knowledge, working on approved company details such as minor chores incident to keeping one’s own area of the barracks in order, submitting to a variety of minor restrictions concerning the use of certain campus grounds and facilities, the wearing of the uniform, and the general conduct of a fourth class cadet.

Cadets who are unable to meet the desired standards or violate one or more of the customs are subject to corrective action. This can range from a verbal reprimand to walking tours on the barracks quadrangle and may include restriction to the limits of campus. In extreme cases, a cadet who is unable to conform to the military way of life may be brought before a Suitability Board to determine fitness to continue at The Citadel.

The measures described above are designed to test a cadet’s mettle and to determine motivation for cadet life. Their value lies in developing cadets’ ability to perform their duty successfully under trying and stress-producing conditions.

Hazing is not a part of the Fourth Class System and is not tolerated. The suffering of degradation, humiliation, and indignity does not foster the rapid development of those qualities sought in fourth class cadets.

The Fourth Class System is a formidable challenge to any young person. The decision to enter The Citadel must be preceded by a conviction on the part of the prospective cadets and their parents that these future cadets have the mental and physical characteristics appropriate to the system and possess a willingness to undergo the system’s rigors with a determination to see it through and to reap its benefits.

Although the system is demanding and difficult, the rewards are considerable, and they more than justify the effort. At recognition by the upper class cadets, a better person emerges—one who is mentally, physically, and ethically prepared to accept the responsibilities of leadership which will ultimately be given at The Citadel and in the world.
An incoming cadet is classified as a “Legacy” if at least one or more of the following criteria are confirmed:

- Father and/or mother are graduates and former members of the South Carolina Corps of Cadets
- Brother and/or sister are current members of the South Carolina Corps of Cadets
- Brother and/or sister are graduates and former members of the South Carolina Corps of Cadets
- Grandfather and/or grandmother are graduates and former members of the South Carolina Corps of Cadets

These are the ONLY qualifications that relate to the determination of “Legacy” cadets.

**Fourth Class System for Transfer Students**

Those students transferring from the national service academies (specifically the Military Academy, the Naval Academy, the Air Force Academy, the Coast Guard Academy, and the Merchant Marine Academy), Virginia Military Institute, or any other institution at which such students have:

- successfully completed their participation in a fourth class or plebe system;
- been full-time students in good standing in an ROTC program for the period of their enrollment at such an institution;
- been enrolled at any of the institutions listed above for a minimum of two semesters;

shall have the option of requesting a transfer out of the Fourth Class System after one semester at The Citadel, provided at that time they are at least academic sophomores. Eligible students exercising this option to transfer out of the Fourth Class System shall have no cadet rank, nor have any authority over the other fourth class cadets for the balance of the academic year. All other transfer students, regardless of academic standing, will undergo a full year of the Fourth Class System at The Citadel. The Commandant of Cadets will make the final decision on requests for transfer.

**The Citadel’s Physical Effectiveness Program**

There are two (2) parts of The Citadel Physical Effectiveness Program: Weight Management and Physical Fitness. Every cadet is expected to meet the standards established in each of these areas at all times. A Corps Height/Weight Screening is held each fall and spring semester. The Corps Physical Fitness Test is administered each term. By regulation, cadets are required to take these tests every semester. Detailed information on both is found in Chapter Five of the cadet regulation entitled *The White Book*. Cadets not meeting the standards of the Corps Physical Fitness Test are considered Physically Deficient resulting in loss of privileges and rank. Programs are designed to help those cadets work towards reaching the minimum requirements in both fitness and weight management. These programs are mandatory, and it is the individual cadet’s responsibility to participate. Seniors who do not pass the Corps Physical Fitness Test as required each semester will not be allowed to participate in the Fall Semester Ring Presentation or the Spring Semester Graduation Activities to include the Long Gray Line Parade and the Commencement Ceremony.
The Citadel offers commissioning opportunities in all branches of the armed services. While every cadet must successfully complete a course in one of four programs each semester of their freshmen and sophomore year, cadets are not required to enroll in any ROTC commissioning program nor are they required to accept a commission should it be offered.

All cadets are required to enroll in and pass an ROTC course for every semester in which they are enrolled at The Citadel until they have completed four semesters. Study abroad cadets will complete ROTC requirements via independent study/online; see respective ROTC department for approval. If extenuating circumstances beyond the control of the cadet require that he/she withdraw from or not enroll in ROTC, the cadet who is pursuing or may wish to pursue a commission must have the permission of the head of that ROTC Detachment. The cadet who is not pursuing a commission must have the permission of the academic advisor and the Associate Provost. Cadets who miss or fail an ROTC class must meet that requirement in order to graduate. When cadets are making up a missed ROTC requirement or changing to another ROTC, they are not, without permission of the head of the ROTC Detachment, permitted to enroll in an ROTC class at a level lower than their academic class. For example, a member of the senior class who wishes to change to another ROTC must enroll in a senior-level course in the new ROTC unless the head of the ROTC Detachment authorizes enrollment in a lower level course. ROTC classes may not be used to meet elective requirements in any course of study.

ROTC Enhancement

The Armed Forces Scholarship Program has been established to assist the Air Force, Army, and Navy ROTC Detachments at The Citadel in bringing the best and brightest officer candidates to the school. Prospective students must have a minimum 1200 SAT (or 27 ACT), a minimum high school GPA of 3.2, and have accepted an ROTC scholarship prior to matriculation as a freshman at The Citadel in order to be considered. Recipients of the scholarship will receive an annual award of $3,500 for each year in which they receive the ROTC scholarship. Recipients of the Armed Forces Scholarship will be notified by The Citadel’s Director of Financial Aid & Scholarships.

A student must maintain a 3.0 minimum GPA to maintain the Armed Forces Scholarship. Failure to do so will result in the cancellation of the scholarship. The Armed Forces Scholarship will not be reinstated once it has been lost.

Students who are awarded an ROTC Scholarship after matriculating at The Citadel are not eligible for an Armed Forces Scholarship.

ARMY ROTC PROGRAM

The mission of Army ROTC is to commission the future officer leadership of the U.S. Army and to motivate young people to be better Americans. Army ROTC is the only commissioning program that offers future officers the opportunity to serve in the regular Army as well as the National Guard or the Army Reserve. Regardless of cadets’ academic majors, there is an Army specialty that can fulfill their goals.
U.S. Army ROTC Graduates

Graduates of The Citadel’s Army ROTC program, who have accepted a contract, have the opportunity to serve their country in a variety of branches and specialties. Those cadets who have excelled academically and militarily, both in the classroom and at the ROTC Advance Camp, and who have clearly demonstrated high character and outstanding leadership ability, will be selected as Distinguished Military Students.

Graduates of the Army ROTC program may serve as officers on Active Duty, members of the United States Army Reserve, or Army National Guard. Those who desire to be in the National Guard or U.S. Army Reserve will serve on active duty to complete their officer basic course, and then serve as a “citizen soldier” in a Reserve or Guard unit near their homes, graduate schools, places of employment, or in the Individual Ready Reserve (IRR). No matter what type of option is chosen, the total obligation is eight years of active or reserve duty, or a combination of both.

Scholarships

The Army sponsors 4-, 3-1/2-, 3-, 2-1/2-, 2-, and 1-year academic scholarships for outstanding cadets who desire careers as officers in the United States Army. High school students must apply before 17 January of their senior year for four-year and three-year Advanced Designee scholarships. Applications may be obtained at www.armyrotc.com. The application process for two-year and three-year Campus Based Scholarships begins in November of the cadet’s freshman (three-year) and sophomore (two-year) years. The Army scholarship currently pays tuition and fees or room and board for qualified applicants. The amounts are adjusted annually due to institutional tuition and fee changes.

Cadets interested in Reserve Component Duty can apply for a two-year Dedicated or Guaranteed Reserve Forces Duty Scholarship or for a two-year Dedicated Army National Guard Scholarship in November of their sophomore year.

Pay and Allowances

Cadets enrolled in the ROTC Basic Course, who are academic freshmen or sophomores, receive a uniform allowance each academic year. Cadets who are in the Advanced Course (junior and senior years) and contracted with the Army to be commissioned when they graduate receive a uniform allowance. Additionally, contracted cadets will receive a non-taxable subsistence allowance of $420/month for ten month of the school year. All scholarship students receive a textbook allowance of $600 per semester. Between their junior and senior years, all contracted cadets attend a four-week Advance Camp and receive one-half of the base pay of a Second Lieutenant plus travel to and from either Charleston, SC, or their home of record.


**Summer Training**

Outstanding cadets also have the opportunity to attend U.S. Army training such as Airborne school, Air Assault school, Mountain Warfare training, and/or Cadet Troop Leadership Training (CTLT) with active duty Army units around the globe. Cadets are allowed to enlist or retain their membership in the Army National Guard or U.S. Army Reserve under the Simultaneous Membership Program (SMP).

**Formal Enrollment Requirements**

The basic requirements for enrollment in the Army ROTC program must be fully met before the Professor of Military Science can consider a cadet for enrollment in the Army program. (Cadets not meeting these standards are not eligible for commissions or ROTC monetary allowances.) To be eligible, a cadet must:

1. Be a citizen of the United States of America.
2. Be of good character. Cadets convicted by a civil or military court of offenses other than minor traffic violations are not eligible for enrollment without specific approval of the Department of the Army. A cadet may apply for a waiver for a conviction, provided the offense was nonrecurring and did not involve moral turpitude.
3. Maintain a satisfactory academic record. A minimum of a 2.00 cumulative GPA is required.
4. Maintain a satisfactory disciplinary record and leadership rating. This rating is determined by the Professor of Military Science.
5. Pass the Army Physical Fitness Test (APFT) and meet/maintain the required height and weight standards.
6. Be physically and medically qualified under Department of the Army medical standards.

Formal enrollment in the Advanced Course and contracting requires a cadet to meet all of the above criteria, and validation of these criteria is normally done during the cadet’s sophomore year. Waivers for physical defects are granted only in exceptional circumstances, and then only by the authority of the Department of the Army.

**NAVY/MARINE ROTC PROGRAM**

The purpose of the Navy and Marine Corps NROTC Program at The Citadel is to educate and train cadets for professional service as officers in the U.S. Naval Services. The Citadel’s NROTC Program is uniquely suited to provide extensive operational training opportunities as a result of being located in proximity to several military bases and training facilities. Additionally, frequent visits to The Citadel and the Charleston area by operational Navy and Marine Corps units provide several “hands-on” training evolutions for students in The Citadel’s NROTC Program.

Two programs are offered by the NROTC Program, leading to commissions as Ensigns (Navy) or Second Lieutenants (Marines):

1. The Navy/Marine Corps Scholarship Program includes selected Naval Scholarship candidates assigned to The Citadel who have their tuition and a portion of their college expenses paid by the Department of the Navy and will be commissioned upon graduation.
2. The Navy/Marine Corps College Program is that part of the NROTC Program in which students, who have not received national NROTC scholarships, pursue education and training for commissions in the Navy or Marine Corps. College Program students are eligible to compete for Naval Scholarships while students at The Citadel, or may be selected for Advanced Standing within the College Program.

**Naval ROTC Scholarship Program**

Navy/Marine Corps Scholarship students are selected through national competition and attend one of the colleges or universities with NROTC units. The Navy/Marine Corps Scholarship midshipmen attending The Citadel may enroll in any academic major offered by the college. However, all Navy option midshipmen, regardless of major, are required to complete MATH 131/132 or MATH 106/107 and PHYS 221/222 (with associated laboratories). All Navy/Marine Corps midshipmen are required to be enrolled in the Service Specific Naval Science Labs. All four-year Navy and Marine Corps NROTC Scholarship students receiving a commission must also attend three summer training sessions with pay. In return, the Department of the Navy, via The Citadel NROTC Unit, provides tuition, certain fees, a textbook allowance, a uniform allowance, and a monthly subsistence allowance. Upon graduation, NROTC Scholarship midshipmen receive commissions as Ensigns in the U.S. Navy or Second Lieutenants in the U.S. Marine Corps and serve on active duty a minimum of five years. For additional information, please see the NROTC website at [www.nrotc.navy.mil](http://www.nrotc.navy.mil) and NROTC Unit, The Citadel’s website at [www.citadel.edu/nrotc](http://www.citadel.edu/nrotc).

**Naval ROTC College Program**

The NROTC College Program is offered for cadets who wish to earn commissions as officers in the U.S. Navy or U.S. Marine Corps but were not recipients of NROTC Scholarships. College Program students are required to enroll in Naval Science classes, participate with the NROTC Unit in scheduled training and events, and may compete for a variety of other Naval Scholarships offered by the Chief of Naval Education and Training. Each year a number of College Program cadets at The Citadel may receive one, two, or three-year NROTC scholarships.

Additionally, some College Program students, who have not previously been offered Naval Scholarships, may be selected for Advanced Standing prior to beginning their junior year. Students selected for Advanced Standing must attend a minimum of one summer training course, with pay, usually the summer after their junior year. College Program students in Advanced Standing will be provided with all Naval Science textbooks, an annual uniform allowance, and a monthly subsistence allowance during the junior and senior years. Upon graduation, these Naval cadets receive commissions in the U.S. Navy or the U.S. Marine Corps and serve on active duty for a minimum of four years.
Formal Enrollment Requirements
To be eligible for enrollment in the Naval ROTC program, cadets must:

1. be citizens of the United States;
2. have reached the 17th anniversary of their birth by September 1 of the
   year enrolled;
3. not have reached their 27th birthday by December 31 of the year they
   expect to graduate (this can be waived); and
4. be physically qualified. (Defective vision must be correctable to 20/20,
   and waivers for color blindness may be considered.)
5. Additional program entrance requirements may be found at www.nrotc.
   navy.mil.

Those cadets not qualified for or not desiring formal enrollment in either
the Scholarship or College Program may participate in Naval Science courses
for academic credit only. They will not be eligible for appointment to a com-
missioned grade.

NROTC Summer Training

NROTC Scholarship Midshipmen
- Required to complete up to three summer training courses of two to four
  weeks duration
- First Summer Training Course
  o Navy and Marine midshipmen will attend Career Orientation Training
    for Midshipmen (CORTRAMID). CORTRAMID provides midshipmen
    with a four week indoctrination to career fields in the Navy and Marine
    Corps. The midshipmen will receive exposure to operations in each
    of the following communities:
    o Aviation
    o Submarine Warfare
    o Surface Warfare
    o Marine Corps
- Second Summer Training Course
  o Navy midshipmen will participate in a two week leveling crucible called
    “Battle Stations” that will evaluate the midshipman under pressure and
    allows for the successful demonstration of watch standing, seamanship,
    fire fighting, and damage control.
  o Marine midshipmen will receive training on an active Marine Corps base
    or on board an amphibious ship.
- Third Summer Training Course
  o Navy midshipmen will serve aboard an operational ship or squadron in
    the fleet.
  o Marine midshipmen will attend Officer Candidates School in Quantico,
    Virginia.
Advanced Standing College Program

- College Program students are required to attend one summer training course, usually the summer between their junior and senior year.
- Navy midshipmen will serve aboard an operational ship or squadron in the fleet.
- Marine midshipmen will attend Officer Candidates School in Quantico, Virginia.

Transportation costs to and from the sites of the training will be covered by the Department of the Navy, and cadets will earn summer training pay during the period of training.

Summary of Estimated Naval ROTC Allowances

Navy/Marine Scholarship Program:
Each scholarship pays tuition and registration, college, hospital, and laboratory fees outlined in this catalog. In addition, the following payments are also made by the Navy Department:
1. Uniform allowance—paid over four years
2. Subsistence allowance—monthly—gradually increases with academic standing
3. Summer training pay
4. Book allowance, paid each semester

Advanced Standing Program
Navy Department reimbursements for students enrolled in the College Program are:
1. Uniform allowance—paid over one year
2. Subsistence allowance—monthly—gradually increases with academic standing
3. Summer training pay

Naval ROTC Active Duty Commissioning Program

Active Duty students belonging to the Seaman-to-Admiral 21 Program (STA-21) or Marine Enlisted Commissioning Education Program (MECEP) are exempt from having to enroll in ROTC courses every semester. STA-21 Active Duty students are only required to complete Naval Leadership and Management (NAVL 201) and Naval Leadership and Ethics (NAVL 403) ROTC courses in order to meet graduation and commissioning requirements. MECEP Active Duty students are required to complete Evolution of Warfare I (NAVL 303), Fundamentals of Maneuver Warfare (NAVL 402), and Naval Leadership and Ethics (NAVL 403) ROTC courses; however, the Professor of Naval Science may grant waivers for Evolution of Warfare and Fundamentals of Maneuver Warfare if these courses cause an academic overload and result in a graduation delay. Additionally, all Active Duty students must also enroll in Navy or Marine Corps Training Labs each semester. The Senior Leadership Integration Seminar (LDRS 411) is not a graduation requirement for Active Duty students.
AIR FORCE ROTC PROGRAM

The mission of The Citadel’s Air Force ROTC Detachment is to develop Air Force leaders and citizens of character dedicated to serving the nation.

Emphasis is placed on the preparation of dedicated professionals who readily accept responsibility, think critically and creatively, and write and speak effectively.

Citadel graduates have served the Air Force and the nation well in war and peace. Today’s Citadel cadets will assume important command and leadership positions in the United States Air Force, government services, or the private sector.

Four-Year Program

The four-year Air Force ROTC program at The Citadel serves as a major commissioning route for young men and women interested in becoming officers in the U.S. Air Force.

Students enroll at the beginning of the freshman year, and during that first year, they study the organization, mission, and functions of the Air Force as well as fundamental leadership, followership and communications skills.

During the sophomore year, cadets will examine the development of air and space power from its inception to its uses today in contingency operations. Cadets who are physically qualified and have maintained good academic standing may apply for entry into the advanced portion of the program. Cadets desiring a commission will attend a summer field training course between their sophomore and junior years. Cadets enrolled in the Professional Officer Course—the last two years of the Air Force curriculum—study communication skills, leadership in theory and practice, the principles and functions of management, and problem solving. The final year includes the military justice system, the role of the professional officer, U.S. National Security Policy, and Regional Studies. In addition, cadets continue to prepare for entry into active duty.

Formal Enrollment Requirements

To be eligible to pursue a commission through the Air Force ROTC Program, a cadet must:

1. be a citizen of the United States;
2. maintain a satisfactory academic record (at least a 2.0 cumulative GPA for contract and 2.5 cumulative GPA for scholarship);
3. pass the Air Force Physical Fitness Assessment;
4. pass the Air Force Officer Qualifying Test (AFOQT);
5. be of good moral character;
6. be medically qualified;
7. agree to serve on active duty and/or reserve inactive duty for a specified period:
   a. four years active duty and four years inactive reserve status for most
   b. ten years active duty for pilots and six years active duty for Remotely Piloted Aircraft Pilots (RPA), Combat System Officers (CSO) and Air Battle Managers (ABM) after completion of Undergraduate Flying Training;
8. successfully complete a summer field training course.
AFROTC Field Training
Citadel cadets pursuing a commission through AFROTC are required to attend a two-week summer training course at Maxwell Air Force Base in Montgomery, AL between their sophomore and junior years. Field training is a memorable experience in which cadets get an introduction to Air Force life and operations. Each cadet receives practical guidance in leadership, small-arms familiarization, physical training, and expeditionary operations.

Base Visits
The vast scope of the United States Air Force operations is difficult to portray in the classroom. The Air Force ROTC detachment travels to Air Force bases to provide an introduction to the United States Air Force. On these trips, the cadets receive base activity briefings and observe Air Force operations firsthand. They return to school with an accurate perspective of the organization’s global nature. Experience has shown that these visits are of considerable value in developing the cadets’ appreciation of the Air Force officers’ challenging careers.

Pay and Allowances
Air Force contract cadets are provided a monthly subsistence allowance. The current rates are: $300 for freshmen, $350 for sophomores, $450 for juniors, and $500 for seniors. Scholarship cadets are also paid an annual book allowance and a uniform allowance.

AFROTC Scholarship Programs
Air Force scholarships are awarded under two separate program tracks. The first, the High School Scholarship Program (HSSP), is open to graduating high school seniors. The second is the In-College Scholarship Program (ICSP), and is open to freshmen and sophomores in certain approved majors. Details on how to apply for HSSP scholarships, eligibility requirements, and the on-line application can be found at www.afrotc.com. The detachment commander may also have additional scholarships to award at his/her discretion.

High School Scholarship Program
The Air Force ROTC High School Scholarship Program provides 3- and 4-year scholarships in three different types: Type 1, Type 2, and Type 7. The application process is the same for each type.

**Type 1** — pays full college tuition for both in-state and out-of-state cadets, most lab fees and $600 per year for books. Approximately 5 percent of our 4-year scholarship winners will be offered a Type 1 scholarship.

**Type 2** — pays college tuition and most lab fees up to $18,000 and $600 per year for books. Approximately 15 percent of our 4-year scholarship winners will be offered a Type 2 scholarship (mostly in technical fields). All 3-year scholarships are Type 2.

**Type 7** — pays full college tuition and most lab fees up to the equivalent of the in-state rate. These students also receive $600 per year for books. Type 7 scholarships may be converted to a Type 2 for 3 years. Out-of-state recipients attending The Citadel typically convert their Type 7 to a Type 2.
**In-College Scholarship Program**

The In-College Scholarship Program (ICSP) is highly competitive and consists of two phases.

**ICSP Phase One**

ICSP Phase One is open only to sophomore students enrolled in the Air Force ROTC program.

Eligible applicants are nominated for ICSP Phase One by the AFROTC detachment commander. Nominees are rank-ordered based on their leadership ability, grades, fitness, and overall participation in the Air Force ROTC program. Headquarters AFROTC makes the final decision and awards scholarships.

Cadets selected through ICSP Phase One are awarded a Type 1 or 2 scholarship. Selectees are awarded 3-year scholarships All scholarships activate the term they are awarded.

**ICSP Phase Two**

ICSP Phase Two is open to college freshmen in approved majors.

Eligible applicants are nominated for ICSP Phase Two by the commander of the AFROTC detachment.

ICSP Phase Two scholarships are a mix of Type 1 and Type 2 scholarships. Depending on academic major and funding availability, Phase 2 scholarships can be awarded for any of the listed types.

- **Type 1** - pays full college tuition for both in-state and out-of-state cadets, most lab fees and $600 per year for books.
- **Type 2** - pays college tuition and most lab fees up to $18,000 per year and $600 per year for books.

**ICSP Eligibility Requirements**

To be eligible to apply for the ICSP you must:

- Be a United States citizen;
- Possess at least one standardized test (ACT, SAT or AFOQT) score
- Pass the Air Force ROTC Physical Fitness Assessment
- Have at least a 2.5 cumulative college grade point average
- Complete a physical examination and be certified as “Commission-Qualified” by the Department of Defense Medical Examination Review Board. Non-AFROTC students can apply if the examination has been scheduled. If selected, you cannot activate a scholarship until the medical certification is complete.
- Not already be a contracted scholarship recipient
- Meet the Air Force ROTC age, moral, and other scholarship eligibility requirements.

*Eligibility requirements are subject to change.*
Expenses

The Citadel is supported by the State of South Carolina. The costs of operation are underwritten through fees collected from the students, appropriations made by the General Assembly of South Carolina, and contributions to The Citadel. Nonresidents are required to pay a larger portion of the costs of their education than is required of residents of South Carolina.

The Citadel Treasurer is responsible for the collection of monies due The Citadel. All correspondence concerning fees, payments, and status of accounts should be directed to that office. If referral to a collection agency is required for overdrawn accounts, the amount referred will include the collection agency fee.

If an account is unpaid, the college will initiate internal and external collections proceedings.

These proceedings will include credit bureau reporting, referring accounts to outside collections and State of South Carolina collection efforts. Accounts referred for collection will incur additional collection costs paid by the student.

Fees

Students attending the day program at The Citadel pay three primary fees: college fees, auxiliary fees, and a OneCard Restricted deposit. Active duty military personnel assigned to military units for educational purposes pay the same college fees as cadets. The college reserves the right to adjust fees to meet the current cost of operation should it become necessary. This applies to all educational programs at The Citadel. Current fees are available on The Citadel’s web page.

The student assumes responsibility for payment of all fees and overdrafts. All fees and deposits are due and payable by semester, prior to the date of reporting to school. Bills are normally due the first Friday in August. Failure to meet billing deadlines subjects the student to being dropped from enrollment at The Citadel. For incoming freshman cadets or returning upper class cadets, failure to meet billing deadlines may result in the loss of space in the Corps of Cadets and a late payment charge. Remittances by money order or check should be made payable to The Citadel and mailed to the Treasurer, The Citadel, 171 Moultrie Street, Charleston, South Carolina 29409. Remittances by credit card (Mastercard, Visa, Discover, or American Express) may be paid online via a secure connection at the citadel.edu website. There may be a 2.75% convenience fee charged for the use of credit card payments, but no charge for e-check payments.

Information relative to financing educational fees on a monthly installment basis may be secured by contacting the Treasurer’s Office at The Citadel or by viewing the Treasurer’s Office link on The Citadel’s web page at citadel.edu. The Director of Financial Aid and Scholarships also has information concerning financing educational fees through loans other than the guaranteed student loan. Financing arrangements require time for processing, so it is essential that application be made as early as possible prior to the beginning of the school year.
Overdrawn Accounts: A student whose account is overdrawn will not be issued or be allowed to send copies of his or her official transcript, be issued a diploma, or be permitted to enroll in additional course work until satisfactory settlement of the account has been made.

Non-negotiable Checks: There will be a handling charge of $30 for a non-negotiable check. The college will pursue collection procedures as provided by the laws of the State of South Carolina. The Citadel will not accept personal checks from individuals who have issued two non-negotiable checks or one non-negotiable check which has not been redeemed.

ATM machine: The college contracts with a major bank to provide an ATM machine in Mark Clark Hall. Students can access their personal bank accounts through this machine. This is a convenient and secure method to handle cash and eliminates the need for students to have large amounts of cash on hand.

Resident Tuition and Fees

Any undergraduate student or prospective student whose status concerning entitlement to payment of in-state tuition and fees is uncertain has the responsibility of securing a ruling from The Citadel by providing all relevant information on special application forms. These forms can be obtained from the Office of the Registrar and are to be completed and returned to that office at least two weeks prior to the last day of classes for any semester or summer term for which the student is attempting to qualify for payment of the in-state tuition and fee rate. Until such time that eligibility for residency is confirmed, out-of-state fees will be due and payable. Refunds will be issued when a ruling awards in-state status.

Eligibility for payment of in-state tuition and fees shall be determined under the provisions of Sections 59-112-10 through 59-112-100, South Carolina Code of Laws, 1976, as amended. A copy of this law may be obtained from The Citadel Registrar’s Office.

Fee Descriptions

College fees support the general operations of the college. A portion of college fees is earmarked to provide debt service for bonds issued to support construction and renovation of education and general facilities and equipment of the college. These are the only fees that are different for in state and out of state students. Auxiliary fees include athletic support, room, board, infirmary care, and laundry and dry cleaning. A portion of these fees is designed to pay debt service for the auxiliary and athletic facilities.

OneCard Restricted deposit is used to pay for uniforms, uniform alterations, accessories, books, academic supplies, and haircuts. The amount of the deposit is determined annually based upon the average needs of cadets. Certain academic programs and certain corps activities will require other expenditures that are unique to that activity. If a cadet’s costs exceed the deposit amount, the cadet will be required to pay in full or provide additional deposit money. Any unused portion of the deposit will be carried over to the following semester. All unspent funds will be refunded upon graduation or discharge.
Uniforms: All cadets are required to wear The Citadel uniform, which is issued by the College. New cadets are required to be outfitted in new uniforms and uniform accessories issued by the college. New cadets should not bring a supply of civilian clothes other than those which are worn upon reporting to the college, as they are not permitted to wear civilian clothes except during authorized furloughs.

The cost of uniforms, although a paid fee, should be viewed as a clothing expense which is incidental to attending any college. With proper care, uniforms should last for several years. Requirements in subsequent years will depend on the manner in which cadets have cared for their uniforms. The overall cost of the uniforms should not exceed that which would be incurred in purchasing clothes to attend a civilian college. Additional sets of uniforms may be purchased as desired (for cash) in the Cadet Store.

The woolen uniforms issued to cadets are custom-made for The Citadel. Once the uniforms have been fitted, the entire cost will be charged to the cadet. Since the uniforms are tailor-made to the measurements of each cadet after enrollment at The Citadel, every cadet withdrawing from college will be charged a fee for canceling the purchase of the uniforms.

In order to keep the appearance of the Corps of Cadets at the highest level, an inspection will be made of the uniforms of members of the sophomore, junior, and senior classes at the beginning of the school year. If the uniforms do not meet the minimum standards of appearance, the individual will be required to purchase replacements of unserviceable uniform items.

Statement of Students’ Accounts

Students have three accounts at the Citadel, a student account, the OneCard Restricted Account, and the Open Account. All are available for review online. It is incumbent upon the students to verify each charge or credit made to their accounts.

The Restricted Account and the Open Account are both different accounts on the OneCard.

The Restricted Account is automatically loaded each fall and spring semester. It is used to purchase scholastic items only. This includes books, supplies, haircuts, uniforms, tailoring, and accessories.

The Open Account on the One Card can be loaded with additional funds for use at campus facilities. The Open Account is used mainly to purchase food, drinks, and other items that cannot be purchase on the Restricted Account. To deposit funds, you can send cash or check to the One Card Office located in Bond Hall, room 244. You may also go online via Lesesne Gateway and navigate to Campus Center to deposit funds electronically to the Open Account.

Any unexpended OneCard balance will be held until the student withdraws or graduates from The Citadel.

Full athletic grant-in-aid and full academic scholarship recipients are not authorized to receive a refund. Balances in accounts of full athletic grant-in-aid recipients are refunded to the Athletic Department annually.

Other Fees

Reservation Deposit: A $300.00 deposit will be maintained for each cadet. When there is insufficient money in the cadet’s account to cover the cost of damage to buildings, rooms, equipment, or loss of ROTC manuals or govern-
ment property, this deposit will be used. The unused portion is refundable after graduation or withdrawal from The Citadel.

Diploma Fee: The diploma fee is adjusted each year to address the current market price.

Transcript Fee: Information regarding transcripts is available on the Registrar’s Office web page: [http://www.citadel.edu/root/registrar](http://www.citadel.edu/root/registrar).

Laboratory/Orientation Fees: Laboratory/Orientation Fees are charged students taking certain designated courses or orientation programs. Fees are billed as part of the preregistered course load.

Technology Fee: A technology fee is charged each cadet. The fee partially offsets the cost of the various computer laboratories on campus and the costs associated with having computers in barracks rooms.

Late Fee: A significant late fee is charged to all students who are permitted to enroll, even though they may not have satisfied all the financial requirements, i.e. those who have not finalized federal financial aid. Students who sign up for a payment plan and fail to meet the requirements of that plan will be charged the same late fee at the time they fall behind.

Other Fees: In addition to the above, other fees that can be charged include: parking fees, infirmary charges, barracks damage, parking citations, yearbook, lost library books, library book late fees, rifle repair, and other fees directed by college officials.

Refunds

The Citadel is committed to many expenses based upon the anticipated enrollment of a student at the beginning of each semester. Registration at The Citadel is considered to be a contract binding students and their parents or guardians to charges for the entire semester.

However, students who withdraw during a semester may receive partial refunds based on the length of attendance. Refunds will be computed from the required reporting date until the withdrawal date as determined by the Registrar. No refunds will be made for less than $1.00.

In the event that a cadet receives a Medical Discharge, any refund due the cadet will follow the normal refund schedule policy as promulgated by the Vice President for Finance and Business Affairs. In the event that the Medical Discharge is a direct consequence of an injury received during The Citadel training program, the cadet may request an adjustment to this policy. The Campus Assessment Team (CAT) will make the final decision on all such requests. Authorized refunds are as follows:

The school is not subject to any State or Accrediting Agency refund policy.

The refund schedule can be found on the Treasurer’s Office web page: [http://www.citadel.edu/root/treasurer](http://www.citadel.edu/root/treasurer).

Deposits for Uniforms, Books, Supplies, and Accessories - OneCard Restricted Account:

Any unused portion of the deposit to the student’s account for uniforms, books, supplies, and accessories will be refunded within 30 days of graduation or discharge.
Financial Aid & Scholarships

The Office of Financial Aid & Scholarships administers student loan applications, grants, scholarships and work-study programs.

Forms and Deadlines

To apply for financial aid at The Citadel and to best demonstrate eligibility for need-based scholarships, all students should file a Free Application for Federal Student Aid (FAFSA) as soon as possible after October 1 of each year. These forms are available online at http://FAFSA.ed.gov. The Office of Financial Aid and Scholarships may request additional information. Students are responsible for checking their e-mail account, online Citadel financial aid account, completing all requested paperwork, and submitting financial aid requirements in a timely manner. Funds are limited, so late applications are considered for aid only if resources are available.

Priority deadline dates are as follows:

- Academic year (fall and spring)  
  - February 28
- Fall only  
  - February 28
- Spring only  
  - October 15
- Summer  
  - April 15

Applicants who have not completed all financial aid paperwork by June 30 should not expect to receive notification of awards prior to the beginning of fall semester. These applicants should be prepared to pay for their tuition, fees, and other costs at the established fee payment deadlines. Students will be reimbursed if they are subsequently determined to be eligible for financial aid.

Determining Financial Need

The amount of financial aid is determined based on the FAFSA form the applicant files after October each year. This form solicits information about the applicant’s family’s current financial situation and produces an “expected family contribution” (EFC). Adjusted gross income data from tax forms is used along with current asset information to determine family resources. Allowances are made for federal and state taxes, social security, employment (when both parents work), unusual medical and dental expenses, and family size. Other factors considered are any unusual expenses and the number of family members in college. In its simplest definition, financial need is the difference between the cost to attend college and the expected family contribution, as determined by the need analysis. If costs exceed the amount of family contribution, then the applicant has “demonstrated” financial need.

Dependent or Independent Status

Federal student aid programs are based on the premise that parents have the primary responsibility of financing their dependent children’s education. However, independent students are not required to submit parental data. Students who fall into at least one of the following categories are automatically considered independent:
Federal Eligibility Requirements

Any student who is accepted for admission is eligible to request financial assistance. However, there are several general eligibility requirements a student must meet to receive federal financial aid:

a. A student must be admitted to The Citadel as a regular or provisional student,
b. A student must be a U.S. citizen or a national or permanent resident,
c. A student may not receive aid if he or she is in default on any federal student loan program with any institution,
d. Generally, a student must be enrolled at least half-time. This is defined as 4.5 hours/semester for graduate students and 6 hours/semester for undergraduate students,
e. A student may not receive aid if he or she owes a repayment on a Pell Grant, Supplemental Grant, or state Student Incentive Grant at any institution,
f. A student must have the minimum grade point ratio and must make satisfactory academic progress (SAP) toward a degree to continue to receive federal financial aid.

Types of Financial Aid

Grants

Federal Pell Grant

The Federal Pell Grant program provides federal grants for eligible undergraduate students. Eligibility is determined by the Free Application for Federal Student Aid (FAFSA) using a nationally mandated formula applied uniformly to all applicants. Students must demonstrate satisfactory progress toward a degree each year to receive a Pell Grant in the next academic term. The Citadel participates in the Department of Education’s Electronic Data Exchange (EDE) program, which provides the student and the institution with faster processing of applications. When a student completes the FAFSA, the eligibility for a Federal Pell Grant is determined by the processor, and an electronic Student Aid Report (SAR) is available for applicants who provide a valid e-mail address. At the same time, an electronic ISIR is generated to the school. If corrections need to be made on the application, the institution can send the corrections electronically and have the results within four business days.
Federal Supplemental Educational Opportunity Grant (SEOG)

The SEOG program provides aid to students who qualify for Pell Grants and who show exceptional financial need. These grants range in value from $300 to $4,000 per academic year, with the average award being $1,000.

South Carolina Need-Based Grant

South Carolina Need-Based Grants are awarded to South Carolina residents, on a first-come basis, who demonstrate financial need. A student may receive up to $2,500 annually for full time status and up to $1,250 annually for part-time status. Visit the South Carolina Commission on Higher Education web site for eligibility requirements.

Athletic Grants-in-Aid

These grants are awarded to qualified students selected by members of the coaching staff. Additional information may be obtained by writing to the Director of Athletics.

Work Programs

The Federal Work-Study Program

This federally funded program provides part-time employment to qualifying students. Students are paid on an hourly basis, not less than the federal minimum wage. Paychecks are issued twice a month directly to students for hours worked. The Human Resources Office makes assignments after a student has qualified for work-study.

The Institutional Work Program

This non-federally funded program makes a variety of student jobs available in academic and administrative offices on campus. A student does not need to demonstrate financial need. Inquiries and applications are made in the Human Resources office.

Loans

The Federal Direct Loan Program

The Federal Direct Loan Program provides students with long-term, low interest subsidized and unsubsidized loans. The federal government pays the interest of the subsidized loan while the student is enrolled in school, whereas the interest accrues on the unsubsidized loan. The FAFSA contribution is taken into consideration when determining eligibility for any subsidized student loans. The maximum loan amount for a combination of subsidized and unsubsidized loans is $5,500 for a first year student; $6,500 for a second year student; and $7,500 for remaining years of study. During their academic careers, undergraduate dependent students may borrow up to a maximum of $31,000 (only $23,000 can be subsidized). Independent undergraduate students may borrow up to a maximum of $57,500 (only $23,000 can be subsidized). The interest rates are set each year. Please check current rates online at citadel.edu/finaid. Repayment begins six months after the student graduates or after enrollment drops below half-time status.
The Federal Direct Parent Loan for Undergraduate Students (PLUS)

Under the Federal Direct PLUS program, parents of dependent undergraduate students may borrow annually up to the difference between the student’s cost of attendance and the estimated amount of financial assistance for each dependent student. There is no aggregate maximum under this program. The interest rate is set each year. Please check current rates online at citadel.edu/finaid. Repayment begins 60 days after the final disbursement or can be deferred while the student is enrolled at least half-time.

South Carolina Teacher Loan Program

This South Carolina Teacher Loan Program is intended to attract and maintain the residency of talented teachers through the offer of student loan cancellation. Loan recipients who become certified to teach in critical need subject areas or who choose to teach in a designated school district will have their loans cancelled up to 100% at the rate of 20% for each full year of teaching. To qualify for this program, students must be South Carolina residents who attend college for the purpose of becoming a certified teacher. Employment must be in the state’s public school system in an area of critical need as defined by the State Board of Education. Loan recipients who fail to become certified or who do not teach in a critical need area must repay the entire amount of the loan plus interest. Funds are limited; the priority filing deadline is April 30.

Scholars Programs

The Citadel Honors Program is the college’s premier program for intellectually and academically gifted students who demonstrate a love of learning and wish to participate in rich intellectual discourse over their four-year college career. Special benefits of the program include an honors curriculum of small classes, discussion-style instruction, regularly-scheduled one-on-one tutorials with honors program faculty, and comprehensive pre-professional counseling which includes research, writing, discussion, and planning regarding post-graduate goals, whether that’s finding a job, applying to graduate or professional school, or competing for a national-level post-graduate scholarship or fellowship. A special notation will appear on the transcript of Honors Program graduates, and a distinctive seal will be attached to The Citadel diploma in recognition of this significant accomplishment.

A $10,000 annual scholarship will be awarded to all participants in The Citadel Honors Program. All applicants will be considered for one of The Citadel’s full scholarships. An interview and separate application are required: citadel.edu/honors.

The Business Scholars Program is an exciting opportunity for talented students who are interested in business management, sales, supply-chain management and logistics, entrepreneurship, operations, accounting, finance, and related fields. Business Scholars will receive special benefits to aid in their educational and career development, such as unique networking opportunities, study abroad activities, scholarships, and counseling/guidance to obtain internships and jobs. The Business Mentor Association will provide a personal coach and counselor to assist in career planning and visioning. Business Scholars will work as members of a specialized cohort with opportunities for individually-tailored independent studies, experiential learning, and interactions with key area business organizations.
The Teaching Scholars Program is a selective program for academically talented students of excellent moral character who wish to pursue a career in teaching. Preference will be given to those who desire to teach in South Carolina public schools, but those who wish to teach in other locations or settings or who will accept a military commission upon graduation are also eligible. Teaching Scholars will receive special benefits to help in their educational and career development, such as volunteer/service activities in P-12 schools and other youth-serving agencies, study abroad opportunities, mentorship, networking opportunities, and assistance in obtaining internships and jobs.

The Cybersecurity/Intelligence Scholars Program is an innovative program for gifted students who have a strong interest in cybersecurity and national security affairs. Students selected as scholars will be recognized as members of an elite cohort whose skills and motivation make them prime candidates for post-graduate careers and opportunities. In addition, scholars will receive special benefits to help in their educational and career development, such as special enrichment activities and training, mentorship from private or government professionals in the field, faculty-guided research, study abroad activities, scholarships, and counseling/guidance to obtain internships and jobs.

The Leadership Scholars Program is an elite program for students who have the disposition and interest to develop themselves as effective and ethical leaders, leveraging The Citadel’s national recognition for leadership development in all walks of life. Leadership Scholars will complete a minor in Leadership and benefit from leadership development programs; educational and career development activities, such as mentorship from leaders in business, government, and the military; study abroad activities; networking with fellow scholars and community leaders; social events; scholarships; and counseling/guidance to obtain internships and jobs or prepare for graduate school.

The STEM Scholars Program is an innovative cohort-based program for students with special interest and aptitude in science, technology, engineering, or mathematics. STEM Scholars will pursue a bachelor’s degree in either the School of Engineering or School of Science and Mathematics. In addition, STEM Scholars will receive special benefits to enhance their educational and career development, such as professional mentorship, STEM-related community service opportunities, faculty-guided research, study abroad activities, scholarships, and counseling/guidance to obtain internships and jobs or prepare for graduate school.

To indicate your interest in becoming a part of a scholars program, visit citadel.edu/scholars. If you are ready to apply to The Citadel, visit citadel.edu/apply and indicate your interest in a scholars program within your application.

Awards

Most incoming freshman scholarship recipients will be notified of their standing by April 30th. All scholarships must be applied for on an annual basis, except for full academic scholarships and scholarships for which the deeds of trust specify multi-year awards.
**External Scholarships**

Numerous corporations, employers, professional organizations, foundations, local civic organizations, churches, and high schools make scholarships available to Citadel cadets. Outside scholarship assistance has been a rapidly growing source of financial aid at The Citadel. Students should consult high school counselors, employers, civic leaders or public officials and use the local library to obtain information on educational foundations which offer scholarships. Palmetto Fellows, LIFE, and HOPE Scholarships are available to residents of South Carolina. Complete information concerning these state programs can be found on the website for the South Carolina Commission on Higher Education.

**ROTC Scholarships**

ROTC Scholarships provide significant financial assistance to Citadel students. The Army, Navy, or Air Force each has its own criteria and time tables for application and acceptance. SAT or ACT scores should be submitted to the respective service usually by December during the senior year of high school. Enrolled Citadel students can also apply for two- or three-year ROTC Army and Navy scholarships that cover all tuition costs and academic fees, but do not pay the room and board and book and supplies components of the bill. Air Force ROTC scholarships pay according to the type of contract awarded. Every ROTC scholarship student also receives a monthly stipend that could be used to offset the cost of books. Nearly 10% of the Corps of Cadets hold ROTC scholarships. Students interested in ROTC scholarships should contact the head of the appropriate Citadel ROTC unit for additional information and application assistance.

**Other Assistance**

**Vocational Rehabilitation Scholarships:** This program provides for education and training if the student has a physical or mental disability which is a substantial handicap to employment and if there exists reasonable expectation that vocational rehabilitation services may lead to gainful employment. Additional information is available through the Department of Vocational Rehabilitation in the student’s home state.

**Veterans Benefits:** Veterans benefits are administered under the umbrella of student financial aid at The Citadel. Veterans benefits are intended to meet the needs of students receiving benefits under the following programs:

- Ch. 30 - Montgomery GI Bill—Active Duty, Veterans
- Ch. 31 - Vocational Rehabilitation
- Ch. 35 - Dependants’ Educational Assistance Program
- Ch. 33 - Post 9/11 G.I. Bill
- Ch. 1606 - Montgomery GI Bill—Selected Reserve

Veterans who believe they have an entitlement should check with their local VA Office, the regional office in Columbia (1-800-827-1000), or the VA Benefits Coordinator at The Citadel. An applicant should contact the VA Benefits Coordinator at The Citadel well in advance of the anticipated matriculation date so that the necessary documents may be obtained in order to certify attendance with the VA. All veterans and dependents receiving VA Educational Benefits are required to complete an on-line Request for VA Enrollment Certification. Any changes in
a veteran’s course of study should be cleared with the VA Benefits Coordinator to ensure continuation of benefits. Any reduction in course load should be reported immediately to avoid overpayment. Transfer students are reminded that the office must have copies of all transcript evaluations made by the Registrar’s Office before certification can be made to the Veterans’ Administration for payment.

**Satisfactory Academic Progress**

In compliance with regulations governing federal and/or state financial aid programs, The Citadel is required to monitor each student to be certain that he or she is maintaining Satisfactory Academic Progress (SAP) in his or her course of study. SAP standards are separate from The Citadel’s academic policies and are reviewed annually at the end of each spring semester.

**How the Policy Works**

Students who fail to meet published SAP standards will be ineligible to receive federal or state financial aid funds. However, those students failing to meet the minimum standards, as prescribed in this policy, may appeal their status by following outlined conditions.

**Academic Year**

The academic year for SAP determination is comprised of the fall, spring, and summer terms.

**Minimum Standards**

Unsatisfactory academic progress is defined as a failure to meet any of the following standards:

**Undergraduate Students**

1. Academic Progression
   a. Full-time students (enrolled in at least 12 hours/semester) must earn 24 credit hours in an academic year. Full-time students enrolled in one semester are considered to be meeting progression standards by earning at least 12 hours.
   b. Part-time students (enrolled in less than 12 hours/semester) must earn at least 66% of the credit hours attempted in an academic year.

2. GPA - A student’s GPA must meet the required minimum for their grade level according to The Citadel’s academic policies for continuance.
   a. 1.3 with < 39 attempted hours
   b. 1.5 with 40-69 attempted hours
   c. 1.7 with 70-99 attempted hours
   d. 2.0 with > 99 attempted hours

3. Attempted credit hours cannot exceed 207 hours (more than 150% of program length).

**Graduate Students**

1. Academic Progression
   a. Full-time students (enrolled in at least 9 hours/semester) must earn 18 credit hours in an academic year. Full-time students enrolled in one semester are considered to be meeting progression standards by earning at least 9 hours.
b. Part-time students (enrolled in less than 9 hours/semester) must earn at least 66% of the credit hours attempted in an academic year.
2. GPA - A student must earn at least a 3.0 grade point average.
3. Attempted credit hours cannot exceed 150% of the student’s program length.

SAP Appeal
Students who have not met SAP have the opportunity to complete an appeal to regain eligibility for federal aid. Completion of this process does not guarantee reinstatement of federal financial aid. Students are responsible for full payment of tuition/fees regardless of financial aid status. It is also the student’s responsibility to be aware of and to meet all fee payment and financial aid deadlines. The SAP Appeal Packet is available on the Office of Financial Aid & Scholarship’s webpage at citadel.edu.

The SAP Appeal must include:
1. A completed SAP Appeal Form and Academic Improvement Plan approved by the Student Success Center and signed by both the advisor and the student, and
2. A letter written by the student that defines why the student failed to make SAP and what has changed that enables the student to meet SAP at the next evaluation.

If a student fails to either regain regular SAP eligibility after one semester or meet the conditions of the Academic Improvement Plan, the student is ineligible to receive federal financial aid (Title IV aid).

Appeal Deadlines
Completed appeal forms must be turned in two weeks before the end of the term for which the appeal is filed.

Grades
Only letter grades are given to evaluate a student’s progress. The following definitions of letter grades are applicable:
“A” Superior
“B” Very Good
“C” Satisfactory; Acceptable
“D” Marginal; Passing
“F” Unsatisfactory
“P” Grade assigned in pass/fail courses that do not carry credit hours to designate passing performance.
“S” Grade assigned in pass/fail courses that carry credit hours to designate that a grade of “A”, “B” or “C” has been earned and credit has been awarded.
“U” Grade assigned in pass/fail courses and in ENGL 101 to designate that a grade of “D” or “F” has been earned and no credit has been awarded.
“W” Withdrawal from a course prior to the official deadline.
“I” An Incomplete is awarded when course requirements have been very nearly met but for authorized reasons (illness, injury, family emergency, etc.) cannot be completed during the current semester.
“IP” Grade assigned for courses in which requirements are not expected to be met in one academic term. The grade of “IP” must be removed in the next full semester, or the “IP” becomes an “F.” The summer session will not be considered a semester in this case. Under extenuating circumstances, an extension may be awarded by the Associate Provost for Academic Affairs with the recommendation of the instructor. The removal of the “IP” is the responsibility of the student. Students may not enroll in a course in which they currently have an “IP.”

Students who are enrolled in audit courses will not receive financial aid for these courses.

Students can access midterm progress and semester grade reports online by using BANNER Self-Service through the Lesesne Gateway portal.

Taking or Repeating Courses to Improve the GPA/Grade Replacement

The regulatory definition for full-time enrollment status (for undergraduates) has been revised to allow a student to retake (one time only per previously passed course) any previously passed course. For this purpose, passed means any grade higher than an “F”, regardless of any school or program policy requiring a higher qualitative grade or measure to have been considered to have passed the course. This retaken class may be counted towards a student’s enrollment status, and the student may be awarded Title IV aid for the enrollment status based on inclusion of the class. A student may be repeatedly paid for repeatedly failing the same course (normal SAP policy still applies to such cases), and if a student withdraws before completing the course that he or she is being paid Title IV funds for retaking, then that is not counted as his or her one allowed retake for that course. However, if a student passed a class once, then is repaid for retaking it, and fails the second time, that failure counts as their paid retake, and the student may not be paid for retaking the class a third time.

Transfer Credits

When evaluating SAP, a student’s transfer credits, accepted by The Citadel toward completion of the student’s degree program, will count as both credit hours attempted and hours earned.

Change of Major

Students who have changed majors and earn more than the maximum allowable number of credit hours toward graduation will be required to submit a SAP Appeal.

Second Degrees

Students who are completing a second degree will be required to submit a SAP Appeal to explain the reason behind earning more than 150% of allowable credit hours.
Financial Aid Funds Covered by SAP Standards

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Federal Work Study
- Federal Direct Loan, subsidized and unsubsidized
- Federal Direct PLUS Loan
- South Carolina Teachers Loan
- South Carolina Palmetto Fellows Scholarship
- South Carolina LIFE Scholarship
- South Carolina Need-Based Grant
- Other federal/state programs as required
- Some Private Educational Loans (as required by the lender)

Financial Aid Refund and Repayment Policy

Refunds

The Higher Education Act of 1998, Public Law 105-244, substantially changed the way funds paid toward a student’s education are managed should the student, as a recipient of federal financial aid, withdraw from school. If a student who was awarded financial aid withdraws from school, he/she is eligible for the “institutionally-determined-refund” that remains after the immediate repayment of the financial aid award to the Office of Financial Aid & Scholarships (please see the Expenses Section of this catalog). This policy also applies to students on whose behalf a parent has borrowed a Title IV loan. Refunds are returned to the programs that awarded the student aid. In the case of federal funds, a statutory schedule is used to determine the amount of Federal Financial Aid that has been earned based on the period the student was in attendance. Up through the 60% point, in each payment period of enrollment, a pro rata schedule is used to determine how much Federal Financial Aid the student will receive. After the 60% point in the payment period of enrollment, a student has earned 100% of the federal funds awarded for the period.

The percentage earned will be calculated based on the following schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Amount Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6 percent</td>
</tr>
<tr>
<td>2</td>
<td>12 percent</td>
</tr>
<tr>
<td>3</td>
<td>18 percent</td>
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<tr>
<td>4</td>
<td>25 percent</td>
</tr>
<tr>
<td>5</td>
<td>31 percent</td>
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<tr>
<td>6</td>
<td>37 percent</td>
</tr>
<tr>
<td>7</td>
<td>43 percent</td>
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<tr>
<td>8</td>
<td>50 percent</td>
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<tr>
<td>9</td>
<td>56 percent</td>
</tr>
<tr>
<td>10</td>
<td>60 percent</td>
</tr>
<tr>
<td>11-16</td>
<td>100 percent</td>
</tr>
</tbody>
</table>

For example, if a student has received $1,000 in Federal Financial Aid and withdraws within the first week of classes, that student will receive 6 percent ($60) of the aid award applied to total charges. The remaining $940 will be returned to the Federal Financial Aid programs in the following order:

- Unsubsidized Student Loans
- Subsidized Student Loans
- Perkins Loans
• PLUS Loans
• Federal Pell Grants
• Federal SEOG Grants
• Other Assistance under Title IV

The refund and repayment provisions mandated by the Federal government for Federal Aid Recipients apply when a student receives financial aid funds and withdraws, drops out, takes an unapproved leave of absence, fails to return from an approved leave of absence, is expelled, or otherwise fails to complete the period of enrollment for which he or she was charged. The refund and repayment requirements DO NOT APPLY to a student who:

• Withdraws, drops out, or is expelled before his or her first day of class, or
• Withdraws from some classes, but continues to be enrolled in other classes, or
• Does not receive funds for the period in question. (Students whose parents received a PLUS Loan are considered to have received funds and fall under the stated refund and repayment requirements.)

**Repayments**

If a student’s non-instructional educational expenses (allowances as prescribed below) incurred up to the time of withdrawal exceed the amount of cash disbursement, the student does not owe a repayment. If cash disbursed exceeds the non-instructional costs of education incurred up to the time of withdrawal, the student does owe a repayment. This repayment is the difference between costs incurred and the actual cash refund received. Non-instructional expenses are determined by calculating the percentage of room, board, books, supplies, travel, and personal expenses incurred during the portion of the term a student is enrolled. Off-campus board and personal expenses are prorated on a weekly basis. There is no proration of on-campus room charges. A percentage of books, supplies, and travel costs is allowed based on length of enrollment.

**Student aid accounts to be refunded and repaid**

Once the amounts to be refunded and/or repaid are determined, the aid programs from which the student received funds will be reimbursed in the following order:

• Federal Direct/Stafford loans
• Federal PLUS loans received on behalf of the student
• Federal Perkins loans
• Federal Pell Grants
• Federal SEOG Grants
• Other Title IV programs
• Federal, state, private, or institutional student financial assistance received by the student for which refunds are required
• The student
Department of Intercollegiate Athletics

The mission of the Department of Intercollegiate Athletics at The Citadel is to develop, maintain, and continue to improve a well-rounded program of athletics geared to the aims and objectives of The Citadel, the Southern Conference, and the National Collegiate Athletic Association. In order to carry out this mission, all athletics personnel must be familiar with the athletics policy as approved by the Board of Visitors and the President of The Citadel:

The Citadel policy on intercollegiate athletics includes a balanced program covering a broad spectrum of sports for men and women. The College will support this program to enable its representatives to be competitive in every respect. The Citadel will compete as a Division I institution under current NCAA and Southern Conference regulations. The athletics program will be conducted within the aims, standards and objectives of The Citadel as a comprehensive military college providing a quality education. The Department of Athletics is committed to gender and minority equity in all of its programs. In addition, for the safety and welfare of student-athletes, The Citadel maintains full-time certified trainers, a college surgeon, and special orthopedic doctors to provide medical support services.

The Citadel is a member of the NCAA with Football Championship Subdivision classification and Division I classification in all other sports. In addition, the college is a member of the Southern Conference, which is comprised of The Citadel, East Tennessee State University, Furman University, Mercer University, UNC-Greensboro, Samford University, University of Tennessee at Chattanooga, Virginia Military Institute, Western Carolina University, and Wofford College.

The Sports Program

The Citadel Department of Intercollegiate Athletics sponsors 16 varsity teams including football, basketball, cross country, wrestling, indoor and outdoor track, baseball, rifle, and tennis for men; and golf, soccer, volleyball, rifle, cross country, and indoor and outdoor track for women. Each year, nearly 400 cadets participate as players, managers, or student trainers.

The Citadel’s intercollegiate teams are led by qualified coaches who are concerned with the overall development of the cadet-athlete. The graduation rate of Citadel athletes always ranks among the best of the Southern Conference.

Facilities

Athletic facilities at The Citadel are among the finest in the Southern Conference. Home football games are played in historic Johnson Hagood Stadium, a 11,000-seat facility built in 1948. The Bulldogs celebrated the re-opening of the West Stands at Johnson Hagood Stadium for the 2006 season, and in 2008,
the West Side Tower opened its doors to The Citadel Family. The completed project features luxury suites, club seats, a state-of-the-art press box and all the expected amenities of a modern-day facility. The field was named Sansom Field in 2008, commemorating the loyalty and generosity of distinguished and active alumnus, William B. Sansom, ’64. In the fall of 2001, the Altman Athletic Center opened. Located in the south end zone, the Center houses home and visitors’ locker rooms, officials’ rooms, and an entertainment area for The Citadel Brigadier Foundation. In the summer of 2020, the field was replaced with state of the art artificial turf due to the generosity of William B. Sansom, ’64.

McAlister Field House, which houses the Athletic Department staff and several coaches’ offices, was built in 1939 and renovated in 1989, and a new floor was installed in 2016 due to the generosity of Jimmy and Mary Reed. Seating over 5,000 for Bulldog basketball games, McAlister Field House also serves as home of the volleyball and wrestling teams as well as the site for graduations, concerts and a variety of other events. Additional locker rooms have also been added to the Field House. In the summer of 2011, due in large part to private donations, The Citadel basketball program completed an overhaul of the basketball locker room. The main section of seat back stands has been renovated in the summer of 2020 due to the financial collaboration of the institution and athletic department.

Next to McAlister Field House is Vandiver Hall which opened in 1991 and provides the Bulldog soccer, baseball, wrestling, golf, volleyball, cross-country and track and field teams with a modern and well-equipped facility. Dressing and locker rooms, a golf driving range, a wrestling room, and a baseball batting tunnel are a few of the features of Vandiver Hall.

Seignious Hall, which is located directly behind Vandiver Hall, houses the football coaches’ offices and the football locker room. Also located in this facility are a spacious weight room, equipment room, and training room.

The Donald C. Bunch Courts at the Earle Tennis Center, which has often served as the site of the Southern Conference Men’s and Women’s Championships, receive a significant amount of play year-round. The women’s soccer team utilizes WLI Field along the Ashley River while the track and field teams use a track surrounding a multi-purpose turf field which was upgraded in 2018. The track was also resurfaced in 2018 due to a collaborative effort of donors and the institution to provide a five lane rubberized surface.

In April 1997, The Citadel’s baseball team moved into the new, state-of-the-art Joseph P. Riley, Jr. Park, located on the banks of the Ashley River. The 6,000-seat park, which has hosted the Southern Conference Baseball Championship on several occasions, features the Bulldog locker room, luxury suites, an indoor batting tunnel and a state-of-the-art video board. The Citadel utilizes nearby College Park as a practice site during the year.

The indoor rifle range, Inouye Markmanship Center, opened in the fall of 2005. Located behind WLI Field along the Ashley River, this facility allows for general firearms training for the entire Corps of Cadets, enhanced ROTC firearms training, and increased opportunities for Rifle and Pistol Team practices.
The Citadel Honors Program

The Citadel Honors Program provides exceptional learning experiences for outstanding students whose past records indicate that they can take full advantage of the personal student-teacher relationship which the tutorial-based honors curricula will provide. Honors courses will augment the current curriculum of the college by offering for those selected students an experimental and alternate means of education grounded in the methods of intellectual inquiry.

The Honors Program is an autonomous program of the college, with an Honors Director serving as the head of the program. The Director is responsible for recruiting and admitting Honors students, reviewing courses which are proposed to meet Honors requirements and selecting those which will be included in Program offerings, critiquing Honors courses and the performance of the faculty offering them, establishing and enforcing entrance and exit requirements, serving as the Honors Advisor for all Honors students, establishing and monitoring the operating budget for the Honors Program, and coordinating the Honors Program requirements with those of the academic majors.

The Honors Council is comprised of members of the faculty who have taught Honors courses the previous semester. The Honors Council will advise and assist the Honors Director in the governance of the program.

The Honors Students’ Association is comprised of academically proficient participants or past participants in the Honors Program. Its purpose is to promote closer association among participants in the Honors Program, to provide a student forum for discussion of the Honors Program and its operation, and to assist the Honors Council.

Admission and Retention of Students

Students must apply separately for admission to the Honors Program, in addition to applying for admission to the college. Personal interviews, at least by video, are required as part of the application process. The Honors Director will evaluate all applications and offer acceptances based upon the student’s standardized test scores, class rank, personal interview, essay responses, recommendations, previous academic performance, extracurricular activities, and intellectual and academic promise. Applications are available online at www.citadel.edu/honors. Interested high school students should apply early during their senior year, preferably by October 15 in order to be fully considered for placement and all scholarships, and no later than February 1. There is no application fee.

Students with superior academic and cadet performance during their first semester at The Citadel may apply for admission to the Honors Program. Interested freshmen should schedule an interview with the Honors Program director after first semester midterm grades have been posted. Also, with the Director's permission, academically-strong students may be admitted to individual Honors courses on a space-available basis; in such cases, the Honors courses will meet General Education or General Elective requirements as appropriate.

To remain in good standing, students in the Honors Program must maintain at least a 3.00 in their Honors courses, a 3.00 overall, and exhibit conduct that reflects positively upon the college and fellow Honors Program students. The Honors Council will review the record of any Honors student whose academic or
conduct record does meet requirements and take appropriate action, which might include establishment of a probationary period or separation from the program.

**Honors Program Curriculum**

The Honors Program is designed to provide an exceptionally broad background of cultural knowledge and learning skills which students can then apply to their chosen areas of academic specialization. Most of the Honors Program curriculum will come in courses designed to be taken in lieu of General Education requirements. The other Honors courses will take the place of General Electives. The emphasis in Honors courses will be not primarily acceleration, but enrichment. The courses will go into extra depth, examining more closely the significance and implications of the material studied or presenting that material in a broader cultural context. In general, it is expected that Honors courses will employ discussion in order to establish habits of rigorous inquiry and intellectual independence.

The plan behind the curriculum is to create an environment of learning in which the students’ intellectual habits can be formed. The patterns and processes of intellectual and scholarly inquiry will be taught, not merely the results of other people’s having conducted that inquiry. Each Honors course will have a tutorial foundation; students will meet individually or in pairs with their instructors frequently (generally at least every few weeks) to discuss and develop ongoing writing, research, and laboratory projects.

**Curricular Requirements**

There are two levels of Honors Program completion. The top level, referred to as the Gold Seal level, requires the completion of 9 Honors Program courses. The alternate level, referred to as the Certificate level, requires the completion of 6 Honors Program courses. The Certificate level is particularly designed for those who are admitted to the Honors Program after their first semester at The Citadel.

The Honors Program Gold Seal requirements are also dependent on major, in order to align with General Education requirements. All Honors Program students, regardless of major, will complete the Honors Freshman seminar and linked Freshman Writing Intensive courses, Honors Strand English, Honors Strand History, Honors Strand Social Science, the Honors section of Leadership in Organizations (LDRS 371), and at least one Honors Strand Elective. Students whose majors require two semesters of Calculus (Biochemistry, Chemistry, Computer Science, Engineering, Math, Physics) will also be required to complete Honors Mathematics I and II (HONR 131 and 132). Students of all other majors will also be required to complete two additional Honors Strand courses. Furthermore, all Honors Program students, at both the Gold Seal and Certificate level, will be required to complete the entire, six semester Personal and Professional Development series.
Honors Program Recognition

Students who complete the Honors Program Gold Seal requirements will be recognized as Honors Program graduates in their college commencement ceremony. They will receive an Honors Program certificate plus an Honors Seal on their Citadel diploma. A notation will be added to their official college transcript to indicate they have completed the requirements of the Honors Program.

Students who complete the Honors Program Certificate requirements will be recognized as Honors Program Graduates in their commencement ceremony, will receive an Honors Program certificate, and a notation will be added to their official college transcript to indicate that they have fulfilled the requirements of the Honors Program. Unlike Honors program Gold Seal students, they will not receive an Honors Seal on their diplomas.

Honors First-Year Academic Seminar

Students enrolled in the Honors Program may meet the college’s Core Curriculum requirements for freshmen by successfully completing these two courses. Students who join the Honors Program after the 1st semester may satisfy the college’s requirement by completing the college’s freshman seminar and linked writing intensive courses.

- **Honors FSEM 101** Three Credit Hours
  - This seminar will focus by engagement with big questions, both contemporary and enduring. Each seminar will have its own unique theme, addressing the main learning outcomes. This course will pair with the freshman writing intensive topic.

- **Honors FSWI 101** Three Credit Hours
  - This course will pair with the freshman seminar topic, focusing on relevant literature and techniques of prose composition as the students engage the topic in writing.

Honors Math Courses

Honors Program students whose majors require two semesters of Calculus will complete these Honors Math classes in lieu of MATH 131/132

**Honors Mathematics I and II: The Analytic Context** Three Credit Hours

Prerequisite for HONR 131: B or higher in MATH 119; 3 or higher on the AP Calculus exam; by placing in through The Citadel’s Mathematics Placement Exam; by transfer credit for MATH 131 from another college; or by permission of the Chair of the Department of Mathematical Sciences.

Prerequisite for HONR 132: C or higher in HONR 131; B or higher in MATH 131.

This sequence will teach the calculus within the context of its development from the civilization which produced it and its impact on civilization since. Topics covered will closely match those in MATH 131 and MATH 132.

Students enrolled in the Honors Program may meet the Core Curriculum requirement in mathematics by successfully completing HONR 131/132 (“Honors Mathematics: The Analytic Context”) in lieu of all other 2-semester Math sequences required by their major, including MATH 131/32, MATH 104/105, MATH 104/106, MATH 104/STAT160, or MATH 106/107. Students who suc-
cessfully complete the first semester of Honors Mathematics and then cease to participate in the Honors Program can fulfill the Core Curriculum requirement in mathematics for their major, if required, by completing MATH 106, MATH 107, STAT160, or MATH 132.

**Honors Strand Courses & Electives**

Honors Program students will not select a single strand theme but will instead be offered courses from each of the strands. These classes will strengthen student's multidisciplinary knowledgebase and encourage a deeper understanding of multiple relevant world themes. One or two Honors Strand Courses will be offered each semester that compliment general education strand themes. These courses will satisfy Strand English, History, and Social Science requirements. The courses will be listed as Honors ENGS 30x, respectively. (The x will vary from semester to semester based on the course's relevant strand theme, as listed in the General Education Curriculum.

ELES 30x  Honors Strand Elective: Special Topics  Three Credit Hours

Often interdisciplinary, this seminar will investigate a field of study not directly addressed within the framework of the normal curriculum. It will be suitable for students in all majors. Topics will vary. (The x in 30x will be based on the course's relevant strand theme.)

HONR 400/401  Honors Directed Research  Three Credit Hours

Project I & II

Students conduct research under the direction of faculty members. The research need not be original with the student but may be part of a project which the faculty member is currently conducting or has conducted in the past. An extra-departmental second reader or evaluator will be required for all projects. This research may be counted as an Honors Strand Elective (ELES 30x.)

**Professional Development Series**

HONR 211, 212, 311, 312, 411, & 412  Honors Personal and Professional Development Ia, Ib, IIA, IIb, IIIa, & IIIb  Three Credit Hours  (Pass/Fail)

Taught entirely in tutorial, this sequence directs students in a three-year program of research, writing, and discussion on the subject of their professional goals, encouraging them to envision their leadership in their future profession and guiding them in exploring through research and writing the ideals as well as the practices of that profession. During these tutorials, students will work on preparation for job interviews (e.g., refining their resumes and preparing strong answers to common interview questions), for post-graduate schooling (e.g., refining personal statements and other vital application materials), and for post-graduate prestigious scholarships (e.g., developing a plan for creating the experiences, connections, and written materials required). One credit hour (PASS/FAIL) will be granted upon the completion of both 211a and 211b. An additional one credit hour (PASS/FAIL) will be granted upon the completion of both 311a and 311b. A final one credit hour (PASS/FAIL) will be granted upon the completion of both 411a and 411b. This entire three-year series must be completed to fulfill the requirements of the Honors Program.
The Undergraduate Curriculum

All of the degrees in The Citadel’s undergraduate day program have two basic curricular components—the major curriculum and the General Education curriculum. Students enrolled in the South Carolina Corps of Cadets have additional curricular requirements including classes in Leadership, Physical Education, and ROTC.

The Major Curriculum

The curriculum of each major consists of carefully selected required courses. These required classes are generally offered in the home department of the major, but a major may also have specific non-departmental class requirements. So, for example, a student majoring in Physics takes not only required Physics classes but several required Mathematics classes, as well.

The curriculum of each degree program may also contain elective classes. Electives fall into two basic categories, approved or general.

- Approved electives are chosen by students from a list of courses determined by the individual degree program. Approved electives fulfill major requirements and may be either departmental or non-departmental.
- General elective classes fulfill degree requirements, but they do not otherwise count for major or General Education requirements. General elective hours may be applied towards academic minors.

Major work is offered in the following areas:

- Accounting
- Business Administration
- Management
- Finance
- Supply Chain Management
- Marketing and Business Development
- Physical Education
- Social Studies Education
- Civil Engineering
- Construction Engineering
- Electrical Engineering
- Mechanical Engineering
- Criminal Justice
- English
- History
- Intelligence & Security Studies
- Modern Languages, Literatures, & Cultures  
  in French, German, or Spanish
- Modern Languages with Teaching Specialization  
  in French, German, or Spanish
- Political Science
- Psychology
- Biology
- Biology Education
- Chemistry
- Biochemistry
- Chemistry Education
- Computer Science
- Cyber Operations
- Exercise Science
- Sport Management
- Mathematics
- Nursing
- Physics

For detailed courses of study for each major, please refer to the appropriate department or school’s section of the catalog.

The General Education Curriculum

With the 2019-20 academic year, The Citadel began a new General Education program, replacing the Core Curriculum that had been in effect for more than fifty years. The new strands-model General Education described here is required for all students matriculating in the day program since the fall of 2019. The old Core Curriculum, described in earlier catalogs, remains in effect for students who matriculated prior to 2019.

The Citadel’s new General Education program has two related purposes:
1. Promoting our students’ intellectual development by affording them coursework in the fundamental academic disciplines of mathematics, natural science, literature, history, and social science; and
2. Developing our students’ skills and dispositions in six essential areas: quantitative literacy, written communication, critical thinking, inquiry and analysis, intercultural knowledge and competence, and ethical reasoning and action.

Students begin the General Education program in their first year and continue to take General Education classes throughout their college careers. The Curriculum has been designed to offer both progressively challenging standards and a significant amount of choice.

The General Education program has been developed so that, upon successfully completing the curriculum, graduates ought to be able
1. To use quantitative reasoning skills to make calculations, interpret data, communicate results, and evaluate an issue or solve a problem;
2. To communicate ideas in a logical sequence, demonstrating control of syntax and mechanics and the ability to integrate credible and reliable sources;
3. To analyze complex issues that have varying positions and assumptions using information from credible sources, and to state positions, create new positions, and acknowledge other positions including implications and consequences;
4. To demonstrate skill in inquiry and analysis, including using a design process, synthesizing information from relevant sources, drawing conclusions, and recognizing implications and limitations;
5. To demonstrate insight into their own cultural rules and biases, to have accurate understandings of other cultural world views, and to display attitudes of curiosity, openness, and empathy;
6. To recognize ethical issues when presented in a complex, multilayered (grey) context, to analyze cross-relationships among the issues, and to evaluate ethical perspectives and concepts, including his or her own.

The components of the General Education program are as follows:

**First-Year Mathematics**
Every first-year student will enroll in at least one mathematics class. The specific class will vary depending on the student’s degree program. The classes that fulfill this requirement are the following:

- MATH 104
- MATH 105
- MATH 106
- MATH 118
- MATH 119
- MATH 131
- STAT 160

**First-Year Science**
Every first-year student will enroll in at least one science class. This class will be a four-credit unit, three credits for the lecture and one for the lab. The classes will vary depending on the student’s degree program. The classes that fulfil this requirement are the following:

For non-STEM majors:
- ASTR 105/155
- ASTR 106/156
- BIOL 105/115
- CHEM 105/115
- CHEM 106/116

For STEM majors:
- BIOL 101/111
- BIOL 130/131
- BIOL 150/151
- CHEM 140/141
- CHEM 151/161
- CHEM 153/163
- PHYS 221/271

**First-Year Academic Seminar**
The Freshman Seminar is a six-credit unit composed of two three-credit classes taken concurrently—FSEM 101 and the thematically-linked writing intensive FSWI 101. Every first-year student will enroll in this six-credit unit. The individual seminars, all of which focus on important questions or problems, introduce students to the demands of academic work. Student assignments in the seminars are tied to the six essential General Education outcomes (quantitative literacy, written communication, critical thinking, inquiry and analysis, intercultural knowledge, and ethical
reasoning). Seminar students begin to do signature work, "synthesizing, analyzing, and applying cumulative knowledge and skills through problem- or inquiry-based assignments or projects."

Here are the course descriptions of the two three-credit components of the Freshman Seminar:

FSEM 101 Freshman Seminar Three Credit Hours
Corerequisite: FSWI 101
In FSEM 101 the student will be challenged to complete assignments that are tied to the learning outcomes of The Citadel's General Education program. The individual sections of the seminar are designed to appeal to a wide range of student interests, but all are focused on important questions that call for mature study and reflection. Each individual seminar is linked with a thematically-related Writing Intensive class (FSWI 101).

FSWI 101 Freshman Seminar (Writing Intensive) Three Credit Hours
Corequisite: FSEM 101
The Writing Intensive half of the six-credit hour Freshman Seminar develops a student's skills in academic writing. Starting with brief compositions and progressing to a full-length research paper, students work on key writing challenges such as organizing ideas, developing content, and presenting evidence. Each individual Writing Intensive class is linked with a thematically-related section of FSEM 101.

Physical Fitness, Resiliency, and Wellness
In keeping with The Citadel’s traditional commitment to developing the whole person, RPED 260: Physical Fitness, Resiliency, and Wellness is a required General Education class to be taken either in the first or second year.

Professional Communication
All students hone their skills in written communication by enrolling in a class that prepares them for the kinds of writing they will need to do in their careers. The classes will vary depending on the student's degree program. The classes that fulfill this requirement are the following, unless the student's major requires an alternative be taken:

- COMM 216
- COMM 260

Modern Languages
Except for those pursuing degrees in the School of Engineering, all students are required to demonstrate some competence in a modern foreign language. Most students will enroll in two three-credit classes of language instruction, according to the following guidelines.

- Successful completion of two years of instruction in a foreign language is a requirement for admission to The Citadel. Students who choose to study a different foreign language than the one they studied in high school must pass both semesters of the elementary level of the new language (101 & 102).
- Students who choose to study the same language that they studied in high school will take a placement test. There are three possible results of this test:
  1. Students who demonstrate proficiency in the language will be ex-
empted from the two-class language requirement but will be required to take two elective classes, instead. These two elective classes may be higher-level language classes.

2. Students who place into the elementary level of the language will be required to take 102 and 201.

3. Students who place into the intermediate level of the language will be required to take 201 and 202.

For a student whose native language is not English, the language requirement at The Citadel is automatically waived, and the student is allowed to substitute general electives for the waived language courses.

**Strands Classes**

Beginning in the fall of 2020, students will choose to concentrate on one of the following five themes:

- Technology & Innovation
- Citizenship
- Sustainability
- Wellness
- Conflict & Resolution

The students will then enroll in a series, or strand, of five General Education classes, all organized according to the theme they have chosen. Each thematic strand contains classes in English, History, Natural Science, and Social Science; there is also an elective class in each strand.

In following the same theme through five different classes, students will be able to attain a deep understanding of their strand’s topic. The work that they do for these classes ought to reflect this deepening of understanding as they progress through the strand. Moreover, the students’ progression through the strands classes ought to promote their grasp of the essential General Education outcomes.

Strands classes will be offered every semester. Individual degree plans differ, but, as a rule, students will begin taking these strands classes in the first semester of their second year and will complete them in senior year.

**America's Constitutional Heritage**

To comply with a South Carolina law requiring public institutions to "provide instruction in the essentials of the United States Constitution, the Declaration of Independence, the Emancipation Proclamation, the Federalist Papers, and the study of American institutions and history, including African-American history, and ideals," The Citadel has created a new three-credit class, LDRS 202: Leadership in American Government and Society. This class will be required as part of General Education starting in the fall of 2021. Depending on the degree program, this class will replace either a general elective or the required strand elective.

**The Third-Year Leadership Seminar**

The new Junior Leadership Seminar will be offered as part of General Education beginning in the fall of 2021. The student signature work assignments in the seminar will deal with leadership issues and will be assessed according to the students’ performance on the essential General Education outcomes (quantitative literacy, written
Senior Capstone Class

Before graduating, every student in the undergraduate day program must successfully complete a capstone class in which the six essential General Education outcomes are assessed by means of a signature work project. The capstone class will in many cases be part of the student’s major curriculum. But some degree programs do not require a capstone class, and other degree programs have capstone classes that do not assess the six General Education outcomes. In those cases, students will take capstone classes taught through General Education. These General Education capstone classes will be taught for the first time in the fall of 2022.

Additional Curricular Requirements for the Corps of Cadets

Students in the South Carolina Corps of Cadets must successfully complete additional coursework in Leadership, Physical Education, and ROTC. These additional courses are graduation requirements.

Required Physical Education

Every cadet must complete at least two 100-level RPED activity classes.

Leadership

Cadets must successfully complete the following courses during their cadet careers:

- **Leadership 101: The First-Year Experience (1 Credit Hour)** LDRS 101 provides academic and life skills to help students make a successful transition to college as well as to the unique environment of The Citadel. Students will develop their academic skills (reading, listening, note taking, test taking, time management, research, etc.) and will be introduced to campus facilities, resources, and support services. Some attention will also be given to lifestyle and relationship issues. A student must have the approval of the Associate Provost for Academic Affairs to withdraw from LDRS 101.

- **Leadership 211: Sophomore Seminar Service Learning Lab (0 Credit Hour)** The Sophomore Service Learning Lab provides cadets with a hands-on learning experience in the community. Students will select an approved service learning option to complete a minimum of ten hours of service. Students will select service sites based on their interests and availability. Service hours must be documented in GivePulse and verified by the Krause Center Service Learning & Civic Engagement (SLCE) team. This pass/fail course is offered in the fall semester, spring semester, or with professor approval in the summer. Students studying abroad may be able to complete this course while abroad, depending on location. Please contact the SLCE team or Office of Study Abroad to determine eligibility.

- **Leadership 311: Junior Ethics Enrichment Experience (JEEE) (0 Credit Hour)** The Junior Ethics Enrichment Seminar is a one-day experiential seminar that develops ethical decision-making skills. Students learn how to resolve complex ethical challenges and discuss the importance of character in becoming ethical leaders. Generally, this seminar will be completed on Leadership
Day during the fall semester. Students who are unable to attend LDrs 311 on Leadership Day must take the course during the spring semester. Completion of the Junior Ethics Enrichment Seminar is a graduation requirement.

- **Leadership 411: Senior Leadership Integration Seminar (0 Credit Hour)**
  LDrs 411 is a full-day professional development seminar that allows cadets to examine their personal values and the leadership lessons learned at The Citadel in the context of their future career goals. Students engage with business, government, and community partners to connect classroom learning with the professional world. Generally, this seminar will be completed on Leadership Day during the fall semester. Students who are unable to attend LDrs 411 on Leadership Day must take the course during the spring semester. Completion of the Senior Leadership Integration Seminar is a graduation requirement.

**ROTC**
All cadets must satisfy an ROTC requirement for every semester during which they are enrolled at The Citadel or until they have completed eight semesters or met graduation requirements.

All freshman and sophomore cadets (i.e., those classified 4A, 4B, 3A, 3B) must successfully complete a Basic ROTC class in every semester in which they are enrolled. The classes that fulfill this requirement are as follows:
- AERO 101, 102, 201, & 202
- MLTY 101, 102, 201, & 202
- NAVL 101, 102, 201 & either 202 (Marine Corps) or 210/220 (Navy)

Cadets in their third and fourth years (i.e., those classified 2A, 2B, 1A, 1B) have a choice of how to fulfill their ROTC requirements.

Those who are pursuing a commission will enroll in one Advanced ROTC class per semester. The classes that fulfill this requirement are as follows:
- AERO 301, 302, 401, & 402
- MLTY 301, 302, 401, & 402
- NAVL 303, 304, 402, & 403/452 (Marine Corps) or 310, 311, 410/420, & 403/452 (Navy)

Those junior and senior cadets who are not pursuing a commission will not enroll in the Advanced ROTC classes; instead, they will enroll in one ROTC-fulfillment course per semester. All non-commissioning cadets should take LDrs 371, Leadership in Organizations, as one of these fulfillment classes. The remaining courses may be chosen from a wide variety of classes in the Leadership Minor, leadership-oriented courses in students’ major fields, and other high-impact practice courses such as internships or undergraduate research courses.

**Academic Minor**
A minor is defined as a course of study that enables a student to make an inquiry into a single discipline or to investigate a particular topic across the boundaries of two or more disciplines. In either case, the minor is not simply a specified number of credit hours, but a well-defined program.
A minor should complement the student’s major and not simply expand it with more courses in the same field. For this reason, students may not ordinarily pursue both a major and minor in the same discipline. However, in the case where a discrete topical minor is administered by the student’s major department, an exception may be in order.

A minor consists of an ordered series of courses totaling at least 15 credit hours, at least 12 of which must be other than General Education courses and courses specified for major or other minor requirements and at least 6 of which must be at the 300/400 level. At least 9 hours of the minor must be organized in a logical sequence of required courses which provides general direction for the student’s study. At least 9 hours in the minor must be completed at The Citadel or in a Citadel Study Abroad Program.

The student must earn a grade-point average of at least 2.000 on all coursework completed in the minor. Requirements for the minor must be completed concurrently with requirements for the student’s major. A student who meets all requirements for an approved minor will have both the major and minor indicated on the transcript. Requirements for each minor are presented in the appropriate academic school or department section of this catalog.

LIST OF MINORS

Please refer to the department or school for a list of requirements.

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Mechanical Engineering: Manufacturing Track
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Molecular Biology and Biochemistry: Chemistry
Molecular Biology and Biochemistry
Philosophy

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Political Science: International & Military Affairs
Political Science: Law & Legal Studies
Political Science: Non-Western Studies
Psychology
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Southern Studies
Spanish
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Sport Management
Sustainability & Environmental Studies
War Studies
Cooperative Education Course Descriptions

Note: These courses do not reside in a specific academic school or department. If you are interested in pursuing a cooperative education experience, speak with your department head or dean.

COOP 400  Cooperative Experience I
0-12 credit hours
Prerequisite: Junior or senior status with greater than 2.5 GPR.
The student, on an individual basis, pursues advanced understanding by working for a company. The scope of the activities is tailored to the educational focus of the student in consultation with his faculty advisor and the supervisor at the company. The student is required to provide weekly journaling, monthly supervisor evaluations, a final presentation, and a final report on the experience. LESSONS and LABS: No formal class, 0-12 credit hours. Department Head approval. Consultation with Department Faculty Advisor at least bi-weekly on individual work accomplished.

COOP 401  Cooperative Experience II
0-12 credit hours
Prerequisite: Junior or senior status with greater than 2.5 GPR.
The student, on an individual basis, pursues advanced understanding by working for a company. The scope of the activities is tailored to the educational focus of the student in consultation with his faculty advisor and the supervisor at the company. The student is required to provide weekly journaling, monthly supervisor evaluations, a final presentation, and a final report on the experience. LESSONS and LABS: No formal class, 0-12 credit hours. Department Head approval. Consultation with Department Faculty Advisor at least bi-weekly on individual work accomplished.
TOMMY & VICTORIA BAKER
SCHOOL
OF
BUSINESS

Col. Michael R. Weeks, Dean

Lt. Col. Iordanis Karagiannidis, Associate Dean

Department of Accounting & Finance
Col. Cynthia E. Bolt, Head

Department of Management & Entrepreneurship
Col. Alton A. S. Lovvorn, Head

Department of Marketing, Supply Chain Management, &
Economics
Lt. Col. Robert J. Riggle, Head
Tommy & Victoria Baker School of Business

The mission of the Tommy and Victoria Baker School of Business is to educate and develop innovative leaders of principle to serve a global community.

Our teaching, professional, and personal activities are based on our commitment to these values: integrity, fairness, and concern for others in all of our relationships; continuous pursuit and dissemination of knowledge to promote enlightened changes in society; and continuous improvement in all we do.

Drawing on the core values of The Citadel, “Duty, Honor, Respect,” the Baker School of Business prepares students to be principled leaders through development of critical thinking skills and exposure to varied points of view. Our faculty members care about student success and work diligently to prepare students for future success in our highly competitive global environment. We challenge students with the latest management tools and techniques in conjunction with the moral and ethical foundations that undergird our nation’s free market ethos.

Majors, Minors, & Course Subjects
The Baker School of Business is organized into three departments and offers the following majors, minors, and course subjects:

1. Department of Accounting & Finance
   Major(s):
   - Accounting
   - Finance
   Course Subject(s):
   - ACCT (Accounting)
   - FINC (Finance)

2. Department of Management & Entrepreneurship
   Major(s):
   - Business Administration
   - Management
   Minor(s):
   - Business Administration
   - Entrepreneurship
Course Subject(s):
   BANA (Business Analytics)
   BLAW (Business Law)
   ENTR (Entrepreneurship)
   MGMT (Management)

3. Department of Marketing, Supply Chain Management, & Economics
   Major(s):
   Marketing & Business Development
   Supply Chain Management

   Minor(s):
   Economics

   Course Subject(s):
   ECON (Economics)
   MKTG (Marketing)
   SCMT (Supply Chain Management)

The degree of Bachelor of Science in Business Administration (BSBA) is conferred upon satisfactory completion of an undergraduate major program of study within the Baker School of Business.

Course & Minimum Grade Requirements
All these majors share, in addition to the general education curriculum, a set of core business courses. In order to continue in their majors, students must achieve a grade of “C” or higher in each of the following core business courses:

ACCT 201 Principles of Financial Accounting
ACCT 202 Principles of Managerial Accounting
BANA 101 Principles of Business Analytics
BANA 201 Applied Business Analytics
BLAW 301 Legal & Ethical Environment of Business
ECON 201 Principles of Microeconomics
ECON 202 Principles of Macroeconomics
FINC 301 Principles of Finance
MGMT 303 Management & Organizational Behavior
MGMT 449 Strategic Management
MKTG 301 Principles of Marketing
SCMT 301 Principles of Operations Management

All core business courses taken at The Citadel will count towards the major GPA.
Any special topics (470), undergraduate research (480), and independent study (490) courses must be completed with a grade of “C” or higher if the subject area is within the student’s major. (ex. A student who is majoring in supply chain management and taking SCMT 470, SCMT 480, or SCMT 490 must achieve a grade of “C” or higher in order for the course to fulfill a graduation requirement.)

Certain courses require prerequisites. If a course requires prerequisites, then the department has carefully reviewed the course and indicated that students need to complete the prerequisites prior to the first day of class to ensure students are appropriately prepared for the content covered in the course. Students may register for a course as long as they are registered for the prerequisite, and those prerequisites MUST be completed before the first day of class. Students who have not met the course prerequisites by the first day of class will be dropped from the course. Course prerequisites will not be waived.
Department of Accounting & Finance

Department Head: Bolt
Professors: Bolt
Associate Professors: Jones, Lim, Wright
Assistant Professors: Villafranca
W. Francis Hipp Chair and Visiting Professor of Business: Wilford
Instructors: Alvis, Meeks, Nutt, Stunda

Overview

The Department of Accounting and Finance prepares graduates for successful careers in the financial services industry. The department offers two majors: accounting and finance. Students will have the opportunity to excel in a strong area of study leading to a degree that directly impacts a business’s success. Accounting and finance are inter-related fields that measure, analyze and evaluate the performance of an organization. The function of these two majors is complementary as accountants and financial analysts work closely together in both corporate and non-corporate settings. Faculty are dedicated to providing a high-quality educational experience, enhanced by research and professional interaction. Citadel alumni have achieved distinguished careers in accounting and finance, blending their academic work with the core values and principles of the institution.

Rick & Mary Lee Bastin Financial Leadership Lab

Within the Baker School of Business is the Rick and Mary Lee Bastin Financial Leadership Lab. This state-of-the-art lab which is built to simulate a real trading floor, features the latest computer and technology hardware and provides access to a wide range of financial data and analytical tools. The lab aims to extend educational goals by connecting theory to real-world applications, increase student knowledge and expertise and help students build their leadership skills. The lab is also used extensively by the Citadel Financial Management Association to manage the Baker School of Business Student-Managed Investment Fund.

Major in Accounting

The accounting major provides graduates with opportunities in business, government and not-for-profit entities. Accounting students learn critical thinking skills as they analyze, interpret and evaluate both financial and non-financial information through the use of technical knowledge, research and data analysis. This degree prepares students with the accounting knowledge and technology skills required to meet the increasing demand for accountants and for numerous career options available in industry.
Students will graduate with enhanced professional skills in the areas of financial and managerial data analysis, financial statement preparation and interpretation, auditing, tax research and tax compliance. An accounting degree fulfills many of the academic requirements for well-recognized accounting certifications related to countless career choices. Equipped with the tools for success, accounting majors often hold management positions and frequently start their own business.

Professional development is a key component of the accounting major. Internships are a significant part of The Citadel’s commitment to offering professional development to accounting majors by providing on-the-job experience, highly valued by both students and employers. Internships are available during fall, spring, and summer semesters. Beta Alpha Psi, the honor organization for financial and business information students, and The Citadel Accounting Club provide experiential opportunities for students including guest speakers, field trips, professional conference attendance and professional development.

The accounting major provides an excellent foundation for students seeking to become licensed as Certified Public Accountants, Certified Managerial Accountants, Certified Global Management Accountants, Certified Internal Auditors, Certified Information System Auditors and other professional licenses. Additional coursework is typically required and licensure differ from state to state. Students desiring to continue their education will also find opportunities in graduate school to specialize in areas such as tax law, auditing, and valuation services, with excellent employment opportunities at top consulting firms and in industry.

The accounting major consists of 24 credit hours (eight required courses) designed to provide a strong foundation in a wide range of subjects in accounting. Courses in accounting analytics, advanced financial and managerial accounting, auditing, and tax prepare students to become successful accounting professionals in a career path that provides tremendous opportunities for advancement. In addition to required courses, the accounting major also includes one business elective course and three general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot fulfill another degree requirement. Students majoring in accounting must also complete required core business classes and achieve a grade of “C” or higher in each course.

**Major Required Courses**

- ACCT 301 Intermediate Financial Accounting I*
- ACCT 302 Intermediate Financial Accounting II*
- ACCT 303 Intermediate Managerial Accounting*
- ACCT 401 Advanced Accounting*
- ACCT 402 Auditing & Assurance Services*
- ACCT 403 Federal Taxation*
- ACCT 425 Technology & Accounting Analytics*
- BLAW 303 Commercial Law*
**Business Elective Courses (choose one)**

Student will choose from a list of courses offered within the Baker School of Business (ACCT, BANA, BLAW, ECON, ENTR, FINC, MGMT, MKTG, SCMT) in consultation with their academic advisor.

*Prerequisites must be met – see course descriptions for prerequisite requirements.
**Other three credit hour courses must be approved by the AFCI Department Head.

## Major in Finance

The finance major is designed to meet the growing job need and opportunities for financial institutions, investment management firms, hedge funds, certified financial planners, corporate finance, real estate investors, government and not-for-profit entities and related jobs in other financial and managerial environments. The coursework is challenging and practical, with additional opportunities for students to get hands-on experience through internships with financial services firms, as well as practical experience in managing real money in The Citadel Student-Managed Investment Fund. Outside speakers, organized field trips, and special seminars supplement the course offerings in investment management, asset management, risk management, and asset valuation.

Finance majors will learn to interpret and analyze accounting, economic, and financial data to facilitate decision making. The program prepares students to understand and quantify risk, make sound and ethical financial decisions in a risky environment, and design financial strategies for managing business risks.

The finance major consists of 24 credit hours (five required courses; three elective courses) designed to provide a strong foundation in a wide range of subjects in finance. Courses in financial markets and institutions, financial modeling, investments, risk management, and other financial-related areas prepare students to become successful financial professionals in a career path that provides tremendous opportunities for advancement. The finance major also includes one business elective course and three general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot fulfill another degree requirement. Students majoring in finance must also complete required core business classes and achieve a grade of “C” or higher in each course.

## Major Required Courses

- FINC 302 Intermediate Finance*
- FINC 303 Financial Modeling*
- FINC 304 Financial Markets & Institutions
- FINC 401 Investments*
- FINC 403 Risk Management*
Major Elective Courses** (choose three)

- BLAW 311  Principles of Real Estate
- CSCI 205  Introduction to Programming with Python
- ECON 401  Money & Banking*
- FINC 402  Personal Finance
- FINC 404  Student-Managed Investment Fund
- FINC 405  Private Equity, Venture Capital, & Exits*
- FINC 470  Special Topics in Finance
- FINC 480  Undergraduate Research in Finance
- FINC 490  Independent Study in Finance
- MGMT 460  Business Internship
- STAT 366  Applied Statistics*
- STAT 461  Data Analysis*

Business Elective Courses (choose one)

Student will choose from a list of courses offered within the Baker School of Business (ACCT, BANA, BLAW, ECON, ENTR, FINC, MGMT, MKTG, SCMT) in consultation with their academic advisor.

*Prerequisites must be met – see course descriptions for prerequisite requirements

**Other three credit hour courses must be approved by the AFCI Department Head

Accounting & Finance Department Course Descriptions

ACCT 201  Principles of Financial Accounting  Three Credit Hours
Prerequisite(s): BANA 101 or equivalent (can also be corequisite)
Restriction(s): 4B, 3A, 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Explore the theory and practice of financial accounting and reporting. Study the fundamental concepts, terminology, and techniques for the preparation and interpretation of the corporate financial statements. Learn how to conduct a financial statement analysis by completing an annual report project for a publicly traded company. This course was previously listed as BADM 211.

ACCT 202  Principles of Managerial Accounting  Three Credit Hours
Prerequisite(s): ACCT 201
Restriction(s): n/a
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Explore the fundamental concepts, terminology, and techniques necessary for the development of managerial information. Learn the process for determining product costs, CVP analysis, pricing strategies, budget development, responsibility accounting, and short-term decision making. This course was previously listed as BADM 212.
ACCT 205  *Survey of Accounting*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 4B, 3A, 3B, 2A, 2B, 1A, 1B
Note(s): For non-business majors only
Course Description: Develop an understanding of the practical accounting concepts that enable an entrepreneur to be successful. Explore the terminology, techniques and tools necessary to make internal and external business decisions. Learn how to analyze and interpret financial information and financial statements. **This course was previously listed as BADM 218.**

ACCT 301  *Intermediate Financial Accounting I*  Three Credit Hours
Prerequisite(s): ACCT 201
Restriction(s): n/a
Note(s): n/a
Course Description: Explore theories, concepts and practices of financial accounting. Examine the financial accounting cycle and the financial statements. Explore generally accepted accounting principles on receivables, inventory, operational assets, investments, and revenue recognition. **This course was previously listed as BADM 300.**

ACCT 302  *Intermediate Financial Accounting II*  Three Credit Hours
Prerequisite(s): ACCT 301
Restriction(s): n/a
Note(s): n/a
Course Description: Explore generally accepted accounting principles and practices on liabilities, owners’ equity, earnings per share, tax, pension, lease, accounting errors, and statement of cash flows. **This course was previously listed as BADM 301.**

ACCT 303  *Intermediate Managerial Accounting*  Three Credit Hours
Prerequisite(s): ACCT 202; STAT 160
Restriction(s): n/a
Note(s): n/a
Course Description: Explore the process of creating managerial accounting information to gain insights and create value in business organizations. Concepts include modern cost allocation methods such as activity-based costing, target costing and cost analysis for pricing decisions, master and capital budgeting models, investment center performance evaluation techniques, and short-term decision making models. **This course was previously listed as BADM 302.**

ACCT 401  *Advanced Accounting*  Three Credit Hours
Prerequisite(s): ACCT 302 (can also be corequisite)
Restriction(s): n/a
Note(s): n/a
Course Description: Explore business combinations, foreign currency transactions and translation of foreign currency financial statements, and partnership accounting. The study on business combination includes a choice of accounting methods, consolidation methods, various intra-entity transactions, and different types of business combinations. **This course was previously listed as BADM 402.**
ACCT 402  **Auditing & Assurance Services**  Three Credit Hours
Prerequisite(s): ACCT 301 (can also be corequisite)
Restriction(s): n/a
Note(s): n/a
Course Description: Develop an understanding of the basic concepts of auditing including ethics, risk analysis, evaluation of controls, evidence-gathering, and the effects of Sarbanes-Oxley. Apply professional standards to financial statement, compliance, and operational audits including the use of audit data analytics. **This course was previously listed as BADM 416.**

ACCT 403  **Federal Taxation**  Three Credit Hours
Prerequisite(s): ACCT 202
Restriction(s): n/a
Note(s): n/a
Course Description: Explore the basic principles of federal income tax law applicable to individuals and sole proprietors with special emphasis on research, compliance, and tax planning. Analyze current tax legislation and the legislative process. Study individual tax laws related to inclusions, deductions, exclusions, credits, gift and estate tax, property transactions, other taxable entities. **This course was previously listed as BADM 419.**

ACCT 425  **Technology & Accounting Analytics**  Three Credit Hours
Prerequisite(s): ACCT 303 or FINC 302
Restriction(s): n/a
Note(s): n/a
Course Description: Explore the process of analyzing accounting data to gain actionable insights that support strategic decision making and the audit process. Learn how to use analytics software to create data visualizations and strategic business intelligence. Strengthen analytical skills by using data to solve business problems and support recommendations for business process improvement. **This course was previously listed as BADM 427.**

ACCT 470  **Special Topics in Accounting**  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for accounting majors
Course Description: Explore a variety of advanced, accounting-oriented topics at the discretion of the instructor and under the supervision of the department head. **This course was previously listed as BADM 430-435.**

ACCT 480  **Undergraduate Research in Accounting**  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for accounting majors
Course Description: Engage in a scholarly accounting research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. **This course was previously listed as BADM 440.**
ACCT 490  
*Independent Study in Accounting*  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA  
Note(s): Minimum grade of "C" or higher for accounting majors  
Course Description: Engage in a scholarly accounting research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. *This course was previously listed as BADM 490.*

FINC 301  
*Principles of Finance*  
Three Credit Hours  
Prerequisite(s): ACCT 201  
Restriction(s): 3A, 3B, 2A, 2B, 1A, 1B  
Note(s): Minimum grade of "C" or higher for BSBA degrees  
Course Description: Learn the concept and structure of business financing and a study of financial principles and practices, with special emphasis on their relation to managerial planning and control. *This course was previously listed as BADM 321.*

FINC 302  
*Intermediate Finance*  
Three Credit Hours  
Prerequisite(s): FINC 301  
Restriction(s): 3B, 2A, 2B, 1A, 1B  
Note(s): n/a  
Course Description: Explore financial management of operations of nonfinancial firms through the role of the finance executive. *This course was previously listed as BADM 322.*

FINC 303  
*Financial Modeling*  
Three Credit Hours  
Prerequisite(s): FINC 301  
Restriction(s): 3B, 2A, 2B, 1A, 1B  
Note(s): n/a  
Course Description: Journey into financial modeling using computer spreadsheet applications. Explore concepts from financial management and investments using practical application of financial theory. *This course was previously listed as BADM 331.*

FINC 304  
*Financial Markets & Institutions*  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): 4B, 3A, 3B, 2A, 2B, 1A, 1B  
Note(s): n/a  
Course Description: Explore key financial institutions (banks, insurance companies, mutual funds, government entities, etc.), markets (stock, bond and foreign exchange among others) and the wide array of financial instruments that are available to businesses and individuals. Learn how risk management and various markets and institutions interact with each other. Review the activities that take place in financial markets and institutions have a direct effect on personal wealth, the behavior of consumers and businesses, and the well-being of the overall economy. *This course was previously listed as BADM 332.*
FINC 401  Investments  Three Credit Hours
Prerequisite(s): FINC 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Analyze different types of securities, markets, transaction costs, security regulations, and taxes. Learn techniques for analyzing the potential returns and risks of individual securities and for combining them efficiently into portfolios. This course was previously listed as BADM 404.

FINC 402  Personal Finance  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore financial tools and principles such as the financial planning process, liquidity management, debt management, asset management, and risk management. Examine concepts such as retirement, education, and estate planning. This course was previously listed as BADM 423.

FINC 403  Risk Management  Three Credit Hours
Prerequisite(s): FINC 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Learn how to identify, evaluate, finance, and control financial and non-financial business risk as well as the techniques that are used to manage those risks. Explore integrated risk management of the entire portfolio of risk in the business enterprise. Explore risk management techniques to include hedging, diversification, and insurance. This course was previously listed as BADM 426.

FINC 404  Student-Managed Investment Fund  Three Credit Hours
Prerequisite(s): FINC 301
Restriction(s): Instructor permission required
Note(s): n/a
Course Description: Participate in the management of the student investment fund using the techniques, methods and regulations as a professional mutual fund, pension fund or other pooled investment vehicle. This course was previously listed as BADM 439.

FINC 405  Private Equity, Venture Capital, & Exits  Three Credit Hours
Prerequisite(s): ACCT 201 or ACCT 205
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Examine the financial aspects of creating, buying and selling companies. Create financing packages (presentation and financials) and examine leveraged buyouts, venture capital, mergers and acquisitions, bootstrapping, bank financing, and exits This course was previously listed as BADM 438.
FINC 470  *Special Topics in Finance*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for finance majors
Course Description: Explore a variety of advanced, finance-oriented topics at the discretion of the instructor and under the supervision of the department head. *This course was previously listed as BADM 430-435.*

FINC 480  *Undergraduate Research in Finance*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for finance majors
Course Description: Engage in a scholarly finance research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. *This course was previously listed as BADM 440.*

FINC 490  *Independent Study in Finance*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA
Note(s): Minimum grade of "C" or higher for finance majors
Course Description: Engage in a scholarly finance research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. *This course was previously listed as BADM 490.*
<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101 1**</td>
<td>(2,0)*</td>
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<tr>
<td>Freshman Seminar</td>
<td>FSEM 101 3</td>
<td>(3,0)</td>
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<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101 3</td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>Finite Mathematics</td>
<td>MATH 105 3</td>
<td>(3,0)</td>
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<td>Principles of Business Analytics</td>
<td>BANA 101 3</td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>1st Year Basic ROTC</td>
<td>101 1**</td>
<td>(1,0)</td>
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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/1**</td>
<td>(1,0)</td>
<td></td>
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<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211 0**</td>
<td>(0,1)</td>
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<td></td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x 3</td>
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<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201 3</td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>Principles of Macroeconomics</td>
<td>ECON 202 3</td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>Physical Fitness, Resiliency, &amp; Wellness</td>
<td>RPED 260 3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>(3,0)</td>
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</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>RPED 1xx 0**</td>
<td>(0,1)</td>
<td></td>
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<tr>
<td>2nd Year Basic ROTC</td>
<td>201 1-2**</td>
<td>(2,0)</td>
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<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311 0**</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371 3***</td>
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<td>Intermediate Financial Accounting I</td>
<td>ACCT 301 3</td>
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<td>Intermediate Managerial Accounting</td>
<td>ACCT 303 3</td>
<td>(3,0)</td>
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<td>Legal &amp; Ethical Environment of Business</td>
<td>BLAW 301 3</td>
<td>(3,0)</td>
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<tr>
<td>Principles of Operations Management</td>
<td>SCMT 301 3</td>
<td>(3,0)</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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<td>(3,0)</td>
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<tr>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
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<td>(1,0)</td>
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<td>Strand Elective</td>
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<td>(3,0)</td>
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<tr>
<td>Strand Social Science</td>
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<td>Advanced Accounting</td>
<td>ACCT 401 3</td>
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<td>Auditing &amp; Assurance Services</td>
<td>ACCT 402 3</td>
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<td>General Elective</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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<td>(3,0)</td>
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</tbody>
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*Represents semester credit, lecture, and laboratory hours, in that order
**Indicates graduation requirement for South Carolina Corps of Cadets
***Indicates ROTC Fulfillment course
### ACCOUNTING

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Freshman Science Lecture</td>
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<tr>
<td>Freshman Science Lab</td>
<td>1 (1,2)</td>
</tr>
<tr>
<td>Communications in Business</td>
<td>COMM 216 3 (3,0)</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>ECON 201 3 (3,0)</td>
</tr>
<tr>
<td>Statistical Methods</td>
<td>STAT 160 3 (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3 (3,0)</td>
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<tr>
<td>1st Year Basic ROTC</td>
<td>102 1** (1,0)</td>
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</table>

#### Sophomore Year

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Strand History</td>
<td>HISS 30x 3 (3,0)</td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x 3 (3,0)</td>
</tr>
<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT 202 3 (3,0)</td>
</tr>
<tr>
<td>Applied Business Analytics</td>
<td>BANA 201 3 (3,0)</td>
</tr>
<tr>
<td>Business Elective</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>RPED 1xx 0** (0,1)</td>
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<tr>
<td>2nd Year Basic ROTC</td>
<td>202 1-2** (2,0)</td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate Financial Accounting II</td>
<td>ACCT 302 3 (3,0)</td>
</tr>
<tr>
<td>Commercial Law</td>
<td>BLAW 303 3 (3,0)</td>
</tr>
<tr>
<td>Principles of Finance</td>
<td>FINC 301 3 (3,0)</td>
</tr>
<tr>
<td>Management &amp; Organizational Behavior</td>
<td>MGMT 303 3 (3,0)</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MKTG 301 3 (3,0)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td>3** (3,0)</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Taxation</td>
<td>ACCT 403 3 (3,0)</td>
</tr>
<tr>
<td>Technology &amp; Accounting Analytics</td>
<td>ACCT 425 3 (3,0)</td>
</tr>
<tr>
<td>General Education Capstone</td>
<td>GEND 422 3 (3,0)</td>
</tr>
<tr>
<td>Strategic Management</td>
<td>MGMT 449 3*** (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td>3** (3,0)</td>
</tr>
</tbody>
</table>

### CPA Certification

Many states and jurisdictions, including South Carolina, require 150 semester hours of education, in both accounting and non-accounting courses, to qualify for CPA certification. The requirements for licensure vary from state to state. Students should check with the State Board of Accountancy of the state in which they wish to practice to determine the requirements to sit for the CPA exam and to be licensed as a CPA.

REQUIRED FOR GRADUATION FOR ALL ACCOUNTING MAJORS: 121 credit hours

REQUIRED FOR GRADUATION FOR ALL ACCOUNTING MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS: 121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### FRESHMAN YEAR

**First Semester**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1**</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Business Analytics</td>
<td>BANA 101</td>
<td>3</td>
</tr>
<tr>
<td>Finite Mathematics</td>
<td>MATH 105</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>1**</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1**</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0**</td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
<td>3</td>
</tr>
<tr>
<td>Financial Markets &amp; Institutions</td>
<td>FINC 304</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, &amp; Wellness</td>
<td>R PED 260</td>
<td>3</td>
</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>R PED 1xx</td>
<td>0**</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>201 1-2**</td>
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</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0**</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3***</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Legal &amp; Ethical Environment of Business</td>
<td>BLAW 301</td>
<td>3</td>
</tr>
<tr>
<td>Intermediate Finance</td>
<td>FINC 302</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Operations Management</td>
<td>SCMT 301</td>
<td>3</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td>3**</td>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0**</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
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<tr>
<td>Business Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Major Elective</td>
<td></td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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<td>3**</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order

**Indicates graduation requirement for South Carolina Corps of Cadets

***Indicates ROTC Fulfillment course
## FINANCE

### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Freshman Science Lecture</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Freshman Science Lab</td>
<td>1</td>
<td>(1,2)</td>
</tr>
<tr>
<td>Communications in Business</td>
<td>COMM 216</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>ECON 201</td>
<td>3</td>
</tr>
<tr>
<td>Statistical Methods</td>
<td>STAT 160</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td>102</td>
<td>1**</td>
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### SOPHOMORE YEAR

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT 202</td>
<td>3</td>
</tr>
<tr>
<td>Applied Business Analytics</td>
<td>BANA 201</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>ECON 202</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Finance</td>
<td>FINC 301</td>
<td>3</td>
</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>RPED 1xx</td>
<td>0**</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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<td>1-2**</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3</td>
</tr>
<tr>
<td>Financial Modeling</td>
<td>FINC 303</td>
<td>3</td>
</tr>
<tr>
<td>Investments</td>
<td>FINC 401</td>
<td>3</td>
</tr>
<tr>
<td>Management &amp; Organizational Behavior</td>
<td>MGMT 303</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MKTG 301</td>
<td>3</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
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<td>3**</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk Management</td>
<td>FINC 403</td>
<td>3</td>
</tr>
<tr>
<td>General Education Capstone</td>
<td>GEND 422</td>
<td>3</td>
</tr>
<tr>
<td>Strategic Management</td>
<td>MGMT 449</td>
<td>3***</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td>3**</td>
</tr>
</tbody>
</table>

### REQUIRED FOR GRADUATION FOR ALL FINANCE MAJORS: 121 credit hours

REQUIRED FOR GRADUATION FOR ALL FINANCE MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS: 121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Management & Entrepreneurship

Department Head: Lovvorn
Professors: Desplaces, Lovvorn, Sobel
Associate Professors: Dean, Money, Sigler, Smith
Alvah C. Chapman Chair of Management and Ethics Visiting Assistant Professor: Todd
Instructors: Sharma, Swartwood

Overview
The Department of Management and Entrepreneurship offers those who pursue a major through the department an opportunity to prepare themselves deliberatively, rationally, and intentionally to develop careers as principled leaders in their future endeavors. Engagement in management and entrepreneurship classes within the department prepares students to lead diverse individuals, recognize opportunities, and make sound critical decisions as they proceed in their career.

The Department offers two majors: business administration and management. The Department is also responsible for two minors: business administration and entrepreneurship. The curriculum builds the basics of business fundamental knowledge, ethical decision-making and allows students to recognize the trends of today’s business environment. Students are exposed to a unique blend of classroom and applied experiential learning opportunities to aid them in selecting and helping prepare them for their chosen career in today’s dynamic economy.

As a principled manager and entrepreneur, students will develop the knowledge and skills to build trust, inspire commitment, lead change, work in and lead teams, harness people’s creativity and enthusiasm, recognize opportunities, find shared vision and values, share authority and responsibility.

The program provides content and guidance regarding how to assess the moral and ethical dimensions of business decisions in a principled manner. All students in the Management and Entrepreneurship Department are strongly encouraged to do an industry internship—this is supervised work experience related to their desired career objective.

Innovation Lab
The Department oversees the Baker School of Business Innovation Lab—a small operation with a large undertaking as it operates as an idea hub for entrepreneurially-minded students across campus. The Lab’s mission is to “create principled change agents of innovation that solve complex problems.” To achieve this, we teach students to think creatively using a variety of means to solve problems of all sizes.
Major in Business Administration

The object of the business administration major is to equip students with a broad overview of the skills and acumen, technology exposure, quantitative knowledge and experiences for a wide range of existing careers. The program exposes students to a broad swath of knowledge across each of the basic disciplines of business: accounting, economics, finance, management, marketing, and supply chain management. This program provides professional development, ethical business practices, business analytics, and strong communication skills. There is demand for graduates with these degrees.

The business administration major consists of 15 credit hours (five business elective courses) drawn from each of the business disciplines designed to contribute to a robust understanding of business administration. Students select five business electives from the myriad of business courses available. Courses will build upon and contribute to a logical career path (e.g., taking a psychology course in human behavior because the future career path is in the residential real estate industry). The business administration major also includes seven general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot already be required or fulfill another degree requirement. Students majoring in business administration must also complete required core business classes and achieve a grade of “C” or higher in each course.

Students pursuing this major are being phased over to discipline-specific majors within the Baker School of Business as the discipline-specific majors are established.

Business Elective Courses (choose five)

Students will choose from a list courses offered within the Baker School of Business (ACCT, BANA, BLAW, ECON, ENTR, FINC, MGMT, MKTG, SCMT) in consultation with their academic advisor.

Major in Management

The object of the management major is to prepare students with the management skills and acumen, technology exposure, quantitative knowledge and recent management topics in the discipline for a wide range of career options existing. The program provides students with up to date research in the management field as a sound foundation for their career development in many rapidly evolving industries. This program provides professional skills and robust understanding of the value of our free enterprise system, ethical business practices, business analytics, strong communication skills, small and medium business development, and experience with cutting-edge tools, platforms, and channels. There is strong demand for graduates with these degrees.

The management major consists of 24 credit hours (four required courses; four elective courses) designed to contribute to a robust understanding of management and entrepreneurship. Courses will build upon and contribute to a logical career path (e.g., taking a psychology course in human behavior because the future career path is in the residential real estate industry). The management
major also includes four general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot already be required or fulfill another degree requirement. Students majoring in management must also complete required core business classes and achieve a grade of “C” or higher in each course.

**Major Required Courses**
- ENTR 301 Principled Entrepreneurship & the Free Enterprise System
- ENTR 401 Small Business Management/Entrepreneurship
- MGMT 311 Human Resource Management
- MGMT 411 Business Ethics

**Major Elective Courses** *(Choose four)*
- ACCT 403 Federal Taxation*
- BLAW 303 Commercial Law*
- BLAW 311 Principles of Real Estate
- ENTR 411 Technology & Entrepreneurship
- FINC 303 Financial Modeling*
- MGMT 307 Leading Inclusion & Diversity*
- MGMT 313 Leading Teams
- MGMT 421 Management Information Systems*
- MGMT 460 Business Internship
- MGMT 470 Special Topics in Management
- MGMT 480 Undergraduate Research in Management
- MGMT 490 Independent Study in Management
- MKTG 303 Business Development I*

*Prerequisites must be met – see course descriptions for prerequisite requirements

**Other three credit hour courses must be approved by the ME Department Head
Minor in Business Administration

Objectives
The minor in business administration is designed to allow students the opportunity to learn the foundations of business, including leadership and management skills. The elective course is designed to allow students to learn about a functional area in business or to delve more deeply into one of the foundations.

Competencies, Knowledge, or Skills to be Achieved
By completing the minor, students will have developed a basic competency in accounting, business law, economics, and ethics as well as skills in the leadership and management of organizations. Through the elective choice, students will achieve additional knowledge or skill in one of the following foundational or functional areas: accounting, communications, computer applications, economics, finance, human resource management, information systems, international business, law, leadership, marketing, real estate, or statistics.

This minor is not approved for students majoring in accounting, business administration, finance, management, marketing & business development, or supply chain management.

Structure of the Minor:
1. Required courses (9 credit hours):
   - ACCT 201 Principles of Financial Accounting*
   - BLAW 301 Legal & Ethical Environment of Business
   - ECON 201 Principles of Microeconomics*

2. Leadership Elective Course** (3 credit hours):
   Choose one of the following (the course not chosen can be taken to fulfill the Elective Course requirement)
   - LDRS 371 Leadership in Organizations*
   - MGMT 303 Management & Organizational Behavior

3. Elective (3 credit hours):
   Choose one of the following
   - ACCT 202 Principles of Managerial Accounting*
   - BLAW 303 Commercial Law*
   - BLAW 311 Principles of Real Estate
   - COMM 216 Communications in Business*
   - ECON 202 Principles of Macroeconomics
   - FINC 301 Principles of Finance*
   - MGMT 311 Human Resource Management
   - MGMT 421 Management Information Systems*
   - MGMT 431 International Business
   - MKTG 301 Principles of Marketing*
   - MKTG 302 Personal Branding & Networking
   - STAT 160 Statistical Methods

*Prerequisites must be met – see course descriptions for prerequisite requirements
**Other 3-credit hour courses must be approved by the ME Department Head

Total Credit Hours Required: 15 (at least 9 of which must be completed at The Citadel)
Note: Please refer to Academic Minor policy within the Undergraduate Curriculum section of the College Catalog regarding the applicability of courses towards core major curriculum and minor curriculum requirements. For more information, please contact the Management and Entrepreneurship Department Head.

**Minor in Entrepreneurship**

*Objectives*

The minor in entrepreneurship is designed to allow students the opportunity to learn the foundations in creating and sustaining a business, including business plan development and innovation skills. The elective course is designed to allow students to learn about a functional area in entrepreneurship or to delve more deeply into one of the foundations.

*Competencies, Knowledge, or Skills to be Achieved*

By completing the minor, students will have developed a basic competency in entrepreneurship, innovation, and business by understanding how businesses are conceived. Through the elective choice, students will build additional knowledge or skills in a foundational or functional area such as: accounting, communications, computer applications, economics, finance, human resource management, international business, law, leadership, marketing, real estate, social service, or statistics.

This minor is not approved for students majoring in accounting, business administration, finance, management, marketing & business development, or supply chain management.

**Structure of the Minor:**

1. **Required courses (9 credit hours):**
   - ACCT 205 Survey of Accounting
   - ENTR 301 Principled Entrepreneurship & the Free Enterprise System
   - ENTR 401 Small Business Management/Entrepreneurship

2. **Directed Elective Course (3 credit hours):**
   Choose one of the following (the course not chosen can be taken to fulfill the Elective Course requirement)
   - ENTR 411 Technology & Entrepreneurship
   - ENTR 421 Applying Innovation*

3. **Elective Course** (3 credit hours):
   Choose one of the following
   - BLAW 301 Legal & Ethical Environment of Business
   - COMM 206 Persuasive Speaking*
   - COMM 216 Communications in Business*
   - CONE 302 Engineering/Construction Law, Ethics, Safety, & Contracts
   - CONE 311 Resource Estimating
   - CSCI 217 Web Resources & Design*
   - CSCI 370 Developing Mobile Apps*
   - ECON 202 Principles of Macroeconomics*
   - ENTR 470 Special Topics in Entrepreneurship
   - ENTR 480 Undergraduate Research in Entrepreneurship
ENTR 490  Independent Study in Entrepreneurship
FINC 405  Private Equity, Venture Capital, & Exits*
MGMT 303  Management & Organizational Behavior
MGMT 311  Human Resource Management
MGMT 315  Management of Change*
MGMT 431  International Business
MKTG 302  Personal Branding & Networking
STAT 461  Data Analysis*

*Prerequisites must be met – see course descriptions for prerequisite requirements
**Other three credit hour courses must be approved by the ME Department Head
Total Credit Hours Required: 15 (at least 9 of which must be completed at The Citadel)

Note: Please refer to Academic Minor policy within the Undergraduate Curriculum section of the College Catalog regarding the applicability of courses towards core major curriculum and minor curriculum requirements. For more information, please contact the Management and Entrepreneurship Department Head.

Management & Entrepreneurship Department Course Descriptions

BANA 101  Principles of Business Analytics Three Credit Hours
Prerequisite(s): n/a
Restriction(s): n/a
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Develop an understanding of the importance of data-centered decision making. Gain knowledge of software assisted data analysis techniques. Learn basic functionalities of MS-Excel. Develop a basic knowledge of Business Analytics. Gain insights on the fundamentals of how businesses are set up and operated. This course was previously listed as BADM 110.

BANA 201  Applied Business Analytics Three Credit Hours
Prerequisite(s): BANA 101; STAT 160 or STAT 261
Restriction(s): n/a
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Explore the world of Big-Data and gain insights on how businesses champion competitive advantage by leveraging big data analytics. Learn how MS-Excel can be used to perform business analytics by using basic statistical techniques like Descriptive Statistics, correlation analysis, Probability distributions, t-distributions, Confidence Intervals and regression analysis. This course was previously listed as BADM 206.
BLAW 301  *Legal & Ethical Environment of Business*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Explore the legal system, with special emphasis on its relationship to business. Examine federal and state regulations as well as the common law to arrive at an understanding of the legality, ethics, and social responsibility of business decisions. Learn concepts such as the judicial system, torts and product liability, administrative law and consumer protection, agency and partnership, contracts, the Constitution, criminal law, ethics, and fiduciary trust. *This course was previously listed as BADM 305.*

BLAW 303  *Commercial Law*  Three Credit Hours
Prerequisite(s): BLAW 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore key articles of the Uniform Commercial Code (UCC), including provisions relating to sales, commercial paper, and secured transactions, in commercial transactions. Review contracts and business law relating to the commercial and financial transactions of persons and organizations regularly engaged in business, both within the U.S. and globally. Learn the roles of arbitration and litigation, agency regulation, CPA Professional Responsibilities and bankruptcy law. *This course was previously listed as BADM 318.*

BLAW 311  *Principles of Real Estate*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the legal, financial, and ethical rights and obligations of all parties in a real estate transaction. Review the concepts of organizing, functioning, financing, marketing, brokering, appraising, and managing of real estate transactions. *This course was previously listed as BADM 326.*

ENTR 301  *Principled Entrepreneurship & the Free Enterprise System*  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the role of entrepreneurship in the free enterprise system, how government policies affect entrepreneurial activity within the United States and globally, and the moral and ethical dimensions of principled entrepreneurship. Learn to use the tools of economics to understand the entrepreneurial process, including the role of profits and losses, discovery, and creative destruction. Examine the legal forms of business organization and the challenges involved in opening a business and writing a business plan. *This course was previously listed as BADM 327.*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 401</td>
<td>Small Business Management/Entrepreneurship</td>
<td>Three</td>
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<tr>
<td></td>
<td></td>
<td>Credit Hours</td>
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<tr>
<td>Prerequisite(s): n/a</td>
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<td></td>
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<tr>
<td>Restriction(s): 3B, 2A, 2B, 1A, 1B</td>
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<tr>
<td>Note(s): n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Description: Examine the environment of small business, factors of success or failure, small business management tools, and sources of financing. Prepare business plans for the start-up of a business. Work with local entrepreneurs in developing business plans. <strong>This course was previously listed as BADM 425.</strong></td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
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<th>Credit Hours</th>
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<tr>
<td>ENTR 411</td>
<td>Technology &amp; Entrepreneurship</td>
<td>Three</td>
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<td>Credit Hours</td>
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<tr>
<td>Prerequisite(s): n/a</td>
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<td>Restriction(s): 3B, 2A, 2B, 1A, 1B</td>
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<tr>
<td>Course Description: Explore the intersection of technology and entrepreneurship, including both the development of new technology-based businesses and the use of technology in launching and marketing new businesses. Learn about models of technological change, models of new firm strategy development, and models of organizational strategy in high-tech start-ups. Review topics such as matching new technologies and markets, making money from innovation, competition between technologies, strategies for competing against established incumbents, technology portfolio development, and theories of diffusion and adoption. <strong>This course was previously listed as BADM 428.</strong></td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENTR 421</td>
<td>Applying Innovation</td>
<td>Three</td>
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<tr>
<td></td>
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<td>Credit Hours</td>
</tr>
<tr>
<td>Prerequisite(s): n/a</td>
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<tr>
<td>Restriction(s): 3B, 2A, 2B, 1A, 1B</td>
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<tr>
<td>Note(s): ROTC Fulfillment</td>
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<tr>
<td>Course Description: Learn how to find and use innovative means of solving organizational problems by applying unique solutions using the Innovation Lab and Daniel Library's Maker Space. Participate in numerous off-campus events focused on entrepreneurial endeavors such as Start-Up Weekend and 1 Million Cups. Work with a firm to assist in resolving a real-world issue confronting the organization. <strong>This course was previously listed as BADM 437.</strong></td>
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<tr>
<td>ENTR 470</td>
<td>Special Topics in Entrepreneurship</td>
<td>Three</td>
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<td>Credit Hours</td>
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<tr>
<td>Prerequisite(s): n/a</td>
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<td>Restriction(s): 3B, 2A, 2B, 1A, 1B</td>
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<tr>
<td>Note(s): Minimum grade of &quot;C&quot; or higher for entrepreneurship minors</td>
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</tr>
<tr>
<td>Course Description: Explore a variety of advanced, entrepreneurship-oriented topics at the discretion of the instructor and under the supervision of the department head. <strong>This course was previously listed as BADM 430-435.</strong></td>
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<tr>
<td>ENTR 480</td>
<td>Undergraduate Research in Entrepreneurship</td>
<td>Three</td>
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<tr>
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<td>Credit Hours</td>
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<td>Prerequisite(s): n/a</td>
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<td>Note(s): Minimum grade of &quot;C&quot; or higher for entrepreneurship minors</td>
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<td></td>
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<tr>
<td>Course Description: Engage in a scholarly entrepreneurship research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. <strong>This course was previously listed as BADM 440.</strong></td>
<td></td>
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</tr>
</tbody>
</table>
ENTR 490  Independent Study in Entrepreneurship  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA
Note(s): Minimum grade of "C" or higher for entrepreneurship minors
Course Description: Engage in a scholarly entrepreneurship research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. This course was previously listed as BADM 490.

MGMT 303  Management & Organizational Behavior  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Study the fundamental concepts of management and organizational behavior through concepts such as human behavior, attitudes, and performance in organizations, and on the development of positive interpersonal relations. Examine the managerial roles of leader and decisionmaker necessary for effective planning, organizing, influencing, and control of the organization. Explore the dynamics and links among individuals, groups, and the national and international environment are analyzed to highlight the determinants of organizational effectiveness. This course was previously listed as BADM 338.

MGMT 305  Business Leadership  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Apply leadership theory and practice using cases in business and other organizations to focus on concepts such as motivation, persuasion, ethics, power, diversity, and teams. This course was previously listed as BADM 371.

MGMT 307  Leading Inclusion & Diversity  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): ROTC Fulfillment
Course Description: Learn and practice leadership and followership knowledge/behaviors and organizational practices/cultures/policies that foster diversity and inclusion at intrapersonal, interpersonal, group, organizational, and industry levels. This course was previously listed as BADM 424.

MGMT 311  Human Resource Management  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): ROTC Fulfillment
Course Description: Explore the historical, legal, social, economic, and ethical framework of labor relations emphasizing forecasting, planning, staffing, compensating, developing a career, labor relations, performance management, and control and evaluation of human resources. This course was previously listed as BADM 409.
MGMT 313  Leading Teams  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Investigate the use of teams and teambuilding in various types of organizations. Discuss the advantages and disadvantages of teams, along with the variables that make the use of teams effective. This course was previously listed as BADM 333.

MGMT 315  Management of Change  Three Credit Hours
Prerequisite(s): MGMT 303
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Learn how to develop strategies for achieving effective change within organizations. Explore topics such as team building, process consultation, confrontation and the management of conflict, and techno-structural change. This course was previously listed as BADM 420.

MGMT 411  Business Ethics  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): ROTC Fulfillment
Course Description: Examine the positive contributions of ethical business enterprise, and learn practical tools for recognizing and meeting ethical challenges encountered by for-profit and not-for-profit organizations. Learn how organizations can simultaneously pursue financial transparency and accountability, encourage sustainable stewardship of human capital and environmental resources, and promote responsibility for operational and social impact on stakeholders and communities. This course was previously listed as BADM 412.

MGMT 421  Management Information Systems  Three Credit Hours
Prerequisite(s): BANA 101
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Learn how to leverage digital technologies to improve organizational processes and enhance related business strategies. Discuss various digital technologies used in business and investigate current IT capabilities and trends. Describe business opportunities created by digital technologies and use spreadsheets and database management tools to enhance informed business decision-making. This course was previously listed as BADM 417.

MGMT 431  International Business  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): NA
Course Description: Explore and evaluate decisions in international business operations for small and large firms. Examine case studies that cover topics such as international business climate/ culture, foreign exchange rates, international trade, overseas direct investment, and operations management. This course was previously listed as BADM 320.
MGMT 449  
**Strategic Management**  
Three Credit Hours  
Prerequisite(s): ACCT 202; FINC 301; MGMT 303; MKTG 301  
Restriction(s): 2B, 1A, 1B  
Note(s): Minimum grade of "C" or higher for BSBA degrees; ROTC Fulfillment  
Course Description: Integrate the numerous disciplines of business into a coherent, holistic framework. Develop problem-solving and decision-making skills by examining the role of top management in constructing an integrated set of decisions to establish and achieve the organization's goals. **This course was previously listed as BADM 422.**

MGMT 460  
**Business Internship**  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): Instructor permission; 3B, 2A, 2B, 1A, 1B  
Note(s): Minimum grade of "C" or higher; ROTC Fulfillment  
Course Description: Receive academic credit for real-world work experience to complement the classroom education already received. Explore a variety of issues faced by today's firms and their managers, the kinds of information firms collect and use, and the development of solutions for business problems. Work ten to twelve hours each week alongside a senior level manager in a business. This course can be taken up to two times for a maximum of six earned credit hours. **This course was previously listed as BADM 450.**

MGMT 470  
**Special Topics in Management**  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): 3B, 2A, 2B, 1A, 1B  
Note(s): Minimum grade of "C" or higher for management majors  
Course Description: Explore a variety of advanced, management-oriented topics at the discretion of the instructor and under the supervision of the department head. **This course was previously listed as BADM 430-435.**

MGMT 480  
**Undergraduate Research in Management**  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B  
Note(s): Minimum grade of "C" or higher for management majors  
Course Description: Engage in a scholarly management research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. **This course was previously listed as BADM 440.**

MGMT 490  
**Independent Study in Management**  
Three Credit Hours  
Prerequisite(s): n/a  
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA  
Note(s): Minimum grade of "C" or higher for management majors  
Course Description: Engage in a scholarly management research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. **This course was previously listed as BADM 490.**
## BUSINESS ADMINISTRATION
### First Semester
**FRESHMAN YEAR**

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<tr>
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</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1** (2.0)*</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Principles of Business Analytics</td>
<td>BANA 101</td>
<td>3 (3.0)*</td>
</tr>
<tr>
<td>Finite Mathematics</td>
<td>MATH 105</td>
<td>3 (3.0)</td>
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<tr>
<td>Modern Language</td>
<td>3 (3.0)</td>
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<tr>
<td>1st Year Basic ROTC</td>
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**SOPHOMORE YEAR**

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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/211</td>
<td>1** (1.0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0** (0.1)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3 (3.0)</td>
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<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
<td>3 (3.0)</td>
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<tr>
<td>Principles of Macroeconomics</td>
<td>ECON 202</td>
<td>3 (3.0)</td>
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<tr>
<td>General Elective</td>
<td>3 (3.0)</td>
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<tr>
<td>Physical Fitness, Resiliency, &amp; Wellness</td>
<td>RPED 260</td>
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**JUNIOR YEAR**

<table>
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<tr>
<th>Course Description</th>
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</tr>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0** (1.0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3*** (3.0)</td>
</tr>
<tr>
<td>Legal &amp; Ethical Environment of Business</td>
<td>BLAW 301</td>
<td>3 (3.0)</td>
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<td>Strand History</td>
<td>HISS 30x</td>
<td>3 (3.0)</td>
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<td>Principles of Operations Management</td>
<td>SCMT 301</td>
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**SENIOR YEAR**

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<td>Strand Social Science</td>
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<td>3 (3.0)</td>
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</tr>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0** (1.0)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</table>

*Represents semester credit, lecture, and laboratory hours, in that order
**Indicates graduation requirement for South Carolina Corps of Cadets
***Indicates ROTC Fulfillment course
### BUSINESS ADMINISTRATION

#### FRESHMAN YEAR

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<thead>
<tr>
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<td>Freshman Science Lab</td>
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<td>Principles of Microeconomics</td>
<td>ECON</td>
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<td>Statistical Methods</td>
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<tr>
<td>Strand Natural Science</td>
<td>NTSS</td>
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<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT</td>
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<td>Applied Business Analytics</td>
<td>BANA</td>
<td>3</td>
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<td>Communications in Business</td>
<td>COMM</td>
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#### JUNIOR YEAR

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<tr>
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<td>ELES</td>
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<tr>
<td>Principles of Finance</td>
<td>FINC</td>
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<tr>
<td>Management &amp; Organizational Behavior</td>
<td>MGMT</td>
<td>3</td>
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<tr>
<td>Principles of Marketing</td>
<td>MKTG</td>
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<td>General Education Capstone</td>
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<tr>
<td>Strategic Management</td>
<td>MGMT</td>
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**REQUIRED FOR GRADUATION FOR ALL BUSINESS ADMINISTRATION MAJORS:**

121 credit hours

**REQUIRED FOR GRADUATION FOR ALL BUSINESS ADMINISTRATION MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS:**

121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### MANAGEMENT

#### FRESHMAN YEAR
First Semester

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<td>3 (3.0)</td>
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<tr>
<td>Communications in Business</td>
<td>COMM 216</td>
<td>3 (3.0)</td>
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<tr>
<td>Principles of Macroeconomics</td>
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<tr>
<td>Required Physical Education Elective</td>
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<td>HISS 30x</td>
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<td>Business Ethics</td>
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<td>LDRS 411</td>
<td>0** (1.0)</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Small Business Management/Entrepreneurship</td>
<td>ENTR 401</td>
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<tr>
<td>Principles of Operations Management</td>
<td>SCMT 301</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order
**Indicates graduation requirement for South Carolina Corps of Cadets
***Indicates ROTC Fulfillment course
MANAGEMENT
Second Semester

FRESHMAN YEAR
Freshman Science Lecture .................. 3 (3,0)
Freshman Science Lab........................ 1 (1,2)
Principles of Microeconomics ............... ECON 201 3 (3,0)
Statistical Methods.......................... STAT 160 3 (3,0)
Physical Fitness, Resiliency, & Wellness .... R PED 260 3 (3,0)
Modern Language ................................ 3 (3,0)
1st Year Basic ROTC .......................... 102 1** (1,0)

SOPHOMORE YEAR
Strand Natural Science ...................... NTSS 30x 3 (3,0)
Principles of Managerial Accounting ....... ACCT 202 3 (3,0)
Applied Business Analytics .................. BANA 201 3 (3,0)
Principled Entrepreneurship &
the Free Enterprise System ................ ENTR 301 3 (3,0)
General Elective ................................ 3 (3,0)
Required Physical Education Elective ....... R PED 1xx 0** (0,1)
2nd Year Basic ROTC .......................... 202 1-2** (2,0)

JUNIOR YEAR
Strand Social Science ...................... SCSS 30x 3 (3,0)
Principles of Finance ....................... FINC 301 3 (3,0)
Management & Organizational Behavior..... MGMT 303 3 (3,0)
Human Resource Management ............... MGMT 311 3*** (3,0)
Major Elective .................................. 3 (3,0)
1st Year Advanced ROTC ..................... 3** (3,0)

SENIOR YEAR
General Education Capstone ................ GEND 422 3 (3,0)
Strategic Management ...................... MGMT 449 3*** (3,0)
General Elective ................................ 3 (3,0)
Major Elective ................................ 3 (3,0)
Major Elective ................................ 3 (3,0)
2nd Year Advanced ROTC ..................... 3** (3,0)

REQUIRED FOR GRADUATION FOR ALL MANAGEMENT MAJORS: 121 credit hours
REQUIRED FOR GRADUATION FOR ALL MANAGEMENT MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS: 121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Marketing, Supply Chain Management, & Economics

Department Head: Riggle
Professors: Ebeling, Trumbull
Associate Professors: Passyn, Ponomarov, Riggle, Shepherd, Woolsey
Assistant Professors: Kwon, Park
Visiting Assistant Professors: Aselage

Overview

The Department of Marketing, Supply Chain Management, and Economics is dedicated to preparing graduates with the intricate proficiencies needed to take on vital roles in organizations and achieve success in business.

Engagement in marketing, supply chain management, and economics classes within the department will prepare a student to understand the economy, economic markets, supply and demand, consumer buying behavior, product development, brand management, logistics, materials management to name a few. The curriculum a student chooses will build the basics of business fundamental knowledge, ethical decision-making, allow one to recognize the trends of today’s business environment. Students will be exposed to a unique blend of classroom and applied experiential learning opportunities to aid in selecting and helping prepare them for their chosen career in today’s dynamic economy.

Our program provides content and guidance regarding how to assess the moral and ethical dimensions of business decisions in a principled manner. As a student in the Marketing, Supply Chain Management, and Economics Department, students are strongly encouraged to do an industry internship this is supervised work experience related to desired career objective.

Professional Selling Lab

The Department of Marketing, Supply Chain Management, and Economics oversees the Professional Selling Lab. Students use the Sales Lab as a place to practice sales role-play scenarios to gear up to attend Sales Competition. The Lab is as close to a corporate sales training setting as it can get. Graduates typically find themselves in corporate sales training soon after graduation and the sales lab setting help prepare those graduates for success in the corporate environment.
Major in Marketing & Business Development

The marketing and business development major is designed to meet the growing job need and opportunities for marketing related jobs such as marketing research analyst, marketing coordinator, account coordinator, communications specialist, outside sales representatives, inside-sales representatives, business development associate, junior business analyst, or social media specialist to name a few.

The marketing and business development major consists of 24 credit hours (six required courses; two elective courses) designed to contribute to a robust understanding of marketing and business development. Courses branding, business development, ethics, marketing analytics, negotiations, and other marketing and business development-related areas prepare students to become successful advertising, business development, marketing, or sales professional in a career path that provides tremendous opportunities for advancement. The marketing and business development major also includes four general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot already be required or fulfill another degree requirement. Students majoring in marketing and business development must also complete required core business classes and achieve a grade of “C” or higher in each course.

Major Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 411</td>
<td>Business Ethics</td>
</tr>
<tr>
<td>MGTG 302</td>
<td>Personal Branding &amp; Networking</td>
</tr>
<tr>
<td>MKTG 303</td>
<td>Business Development I*</td>
</tr>
<tr>
<td>MKTG 401</td>
<td>Marketing Management*</td>
</tr>
<tr>
<td>MKTG 403</td>
<td>Marketing Analytics &amp; Inquiry*</td>
</tr>
<tr>
<td>MKTG 404</td>
<td>Negotiations &amp; Conflict Resolution*</td>
</tr>
</tbody>
</table>

Major Elective Courses** (Choose two)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLAW 311</td>
<td>Principles of Real Estate</td>
</tr>
<tr>
<td>ENTR 301</td>
<td>Principled Entrepreneurship &amp; the Free Enterprise System</td>
</tr>
<tr>
<td>ENTR 401</td>
<td>Small Business Management/Entrepreneurship</td>
</tr>
<tr>
<td>FINC 402</td>
<td>Personal Finance</td>
</tr>
<tr>
<td>MGMT 307</td>
<td>Leading Inclusion &amp; Diversity*</td>
</tr>
<tr>
<td>MGMT 311</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>MGMT 313</td>
<td>Leading Teams</td>
</tr>
<tr>
<td>MGMT 460</td>
<td>Business Internship</td>
</tr>
<tr>
<td>MKTG 402</td>
<td>Business Development II*</td>
</tr>
<tr>
<td>MKTG 405</td>
<td>Create Your Own Adventure*</td>
</tr>
<tr>
<td>MKTG 406</td>
<td>International Marketing*</td>
</tr>
<tr>
<td>MKTG 407</td>
<td>Consumer Behavior*</td>
</tr>
<tr>
<td>MKTG 470</td>
<td>Special Topics in Marketing</td>
</tr>
<tr>
<td>MKTG 480</td>
<td>Undergraduate Research in Marketing</td>
</tr>
<tr>
<td>MKTG 490</td>
<td>Independent Study in Marketing</td>
</tr>
<tr>
<td>SCMT 401</td>
<td>Logistics Management</td>
</tr>
</tbody>
</table>

*Prerequisites must be met – see course descriptions for prerequisite requirements
**Other three credit hour courses must be approved by the MSCME Department Head
**Major in Supply Chain Management**

The supply chain management major is designed to meet the growing job need and opportunities for positions such as purchasing and supplier management, manufacturing, inventory management, transport management, distribution, business integration, warehousing management, quality management, customer service management, information management, import/export, and logistics management.

The supply chain management major consists of 24 credit hours (four required courses; four elective courses) designed to provide a strong foundation in a wide range of subjects in supply chain management. Courses in logistics, operations, productions management, purchasing, and quality management prepare students to become successful supply chain management professionals in a career path that provides tremendous opportunities for advancement. The supply chain management major also includes one business elective course and three general elective courses. General elective courses can be within any subject area, must be at least three credit hours, must be an academic course (cannot be an ROTC course), and cannot already be required or fulfill another degree requirement. Students majoring in supply chain management must also complete required core business classes and achieve a grade of “C” or higher in each course.

**Major Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SCMT 302</td>
<td>Quality Management*</td>
</tr>
<tr>
<td>SCMT 303</td>
<td>Supply Chain Management*</td>
</tr>
<tr>
<td>SCMT 401</td>
<td>Logistics Management*</td>
</tr>
<tr>
<td>SCMT 402</td>
<td>Purchasing &amp; Materials Management*</td>
</tr>
</tbody>
</table>

**Major Elective Courses** *(Choose four)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 402</td>
<td>Auditing &amp; Assurance Services*</td>
</tr>
<tr>
<td>ACCT 425</td>
<td>Technology &amp; Accounting Analytics*</td>
</tr>
<tr>
<td>BLAW 303</td>
<td>Commercial Law*</td>
</tr>
<tr>
<td>BLAW 311</td>
<td>Principles of Real Estate</td>
</tr>
<tr>
<td>ENTR 401</td>
<td>Small Business Management/Entrepreneurship</td>
</tr>
<tr>
<td>ENTR 411</td>
<td>Technology &amp; Entrepreneurship</td>
</tr>
<tr>
<td>FINC 303</td>
<td>Financial Modeling*</td>
</tr>
<tr>
<td>FINC 403</td>
<td>Risk Management*</td>
</tr>
<tr>
<td>MGMT 307</td>
<td>Leading Inclusion &amp; Diversity*</td>
</tr>
<tr>
<td>MGMT 313</td>
<td>Leading Teams</td>
</tr>
<tr>
<td>MGMT 315</td>
<td>Management of Change*</td>
</tr>
<tr>
<td>MGMT 421</td>
<td>Management Information Systems*</td>
</tr>
<tr>
<td>MGMT 460</td>
<td>Business Internship</td>
</tr>
<tr>
<td>MKTG 302</td>
<td>Personal Branding &amp; Networking</td>
</tr>
<tr>
<td>MKTG 303</td>
<td>Business Development I*</td>
</tr>
<tr>
<td>MKTG 404</td>
<td>Negotiations &amp; Conflict Resolution*</td>
</tr>
</tbody>
</table>
Minor in Economics

Objectives
The minor in economics is designed to allow a student the opportunity to learn the foundations of economics, including the economic tools required for a deeper understanding of markets and for public policy analysis.

Competencies, Knowledge, or Skills to be Achieved
Economics informs the business disciplines, many of which trace their foundations to economics. Top financial firms, for instance, seek graduates with a strong foundation in economic theory, since economics is essential to understanding financial markets. Much of marketing and management theory, since economics is essential to understanding financial markets. Much of marketing and management theory evolved from a base in economics.

As citizens, we are frequently asked to support legislative proposals. Should taxes be raised or lowered? Should Social Security benefits be raised or lowered? Should the U.S. adopt a single-payer system of health care? Should businesses be further regulated to slow climate change? Should parents be permitted further choice on where and how their children are educated? Should we spend more on the social safety net or on defense? Should we permit more or less immigration? Should domestic industry be protected with tariffs to save U.S. jobs? Should the minimum wage be raised? A thorough understanding of economics is critical to answering these questions.

Economics is excellent preparation for anyone interested in law school. Economic principles ground much of judicial decision-making. Economics is also great preparation for the LSAT. A 2010 study using data from the Law School Admission Council, which administers the LSAT, found that economics and philosophy majors tied for first on average LSAT score among 12 largest disciplines.
No students are excluded from pursuing this minor; however, students may not use more than one course to fulfill both the minor requirement and a core curriculum requirement.1

Structure of the Minor

1. Required courses (12 credit hours):
   ECON 201 Principles of Microeconomics*
   ECON 202 Principles of Macroeconomics*
   ECON 301 Intermediate Microeconomics*
   ECON 302 Intermediate Macroeconomics*

2. Elective Course** (3 credit hours):
   Choose one of the following
   ECON 330 Current Economic Controversies*
   ECON 401 Money & Banking*
   ECON 402 The Cuban Economy*
   ECON 470 Special Topics in Economics
   ECON 480 Undergraduate Research in Economics
   ECON 490 Independent Study in Economics
   ENTR 301 Principled Entrepreneurship & the Free Enterprise System
   ENTR 411 Technology & Entrepreneurship
   FINC 303 Financial Modeling*
   FINC 304 Financial Markets & Institutions
   FINC 401 Investments*
   MATH 131 Analytic Geometry & Calculus I*
   MATH 132 Analytic Geometry & Calculus II*
   PSCI 351 International Political Economy
   PSCI 401 Political Issues & Public Policy
   STAT 461 Data Analysis*

*Prerequisites must be met – see course descriptions for prerequisite requirements
**Other three credit hour courses must be approved by the MSCME Department Head

Total Credit Hours Required: 15 (at least 9 of which must be completed at The Citadel)

Note: Please refer to Academic Minor policy within the Undergraduate Curriculum section of the College Catalog regarding the applicability of courses towards core major curriculum and minor curriculum requirements. For more information, please contact the Marketing, Supply Chain Management, and Economics Department Head.

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1 In compliance with the Academic Minor policy found in the Undergraduate Curriculum section of the College Catalog, students pursuing any undergraduate major within the Baker School of Business, which all require ECON 201 and ECON 202, must take one additional elective beyond the prescribed curriculum to fulfill the economics minor course of study. Students must contact the Marketing, Supply Chain Management, and Economics Department Head for approval of additional course and its applicability.

2 In compliance with the Academic Minor policy found in the Undergraduate Curriculum section of the College Catalog, students pursuing a BSBA degree must select a course not already required for their specified major to fulfill the economics minor elective requirement.
Marketing, Supply Chain Management, & Economics Department
Course Descriptions

ECON 201  *Principles of Microeconomics*  Three Credit Hours
Prerequisite(s): MATH 104 or MATH 105
Restriction(s): n/a
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Study the concepts of value and price, including factors affecting short- and long-run adjustments of the individual firm with respect to prices, costs, and levels of production. Gain knowledge of value and price determination, market adjustments in competition and monopoly, distribution of income, international economics, and current economic problems. This course was previously listed as BADM 202.

ECON 202  *Principles of Macroeconomics*  Three Credit Hours
Prerequisite(s): ECON 201
Restriction(s): n/a
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Study the origins of capitalism and the development of economic institutions. Explore economic principles, including an analysis of the determination of national income and its fluctuations, and an introduction to money, banking, and government finance. This course was previously listed as BADM 201.

ECON 205  *Survey of Economics*  Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): n/a
Note(s): n/a
This course introduces students to both microeconomics (the study of individual units, including product markets, individual consumers, and firms) and macroeconomics (the study of broad economic aggregates such as gross domestic product). **for non-business majors**

ECON 301  *Intermediate Microeconomics*  Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): n/a
Note(s): n/a
Course Description: Explore the concepts of consumer choice and demand, price and output determination of the firm, and resource allocation, under different market structures. Discuss topics such as welfare economics, externalities, public goods, and market failure, general equilibrium, and other topics. This course was previously listed as BADM 303.

ECON 302  *Intermediate Macroeconomics*  Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): n/a
Note(s): n/a
Course Description: Examine the concepts of aggregate output, prices, interest rates, and employment in both the short run and long run with an emphasis on the impact of monetary and fiscal policy. This course was previously listed as BADM 304.

ECON 330  *Current Economic Controversies*  Three Credit Hours
Prerequisite(s): ECON 201, ECON 202, or PSCI 351
Restriction(s): n/a
Note(s): n/a
Course Description: Learn about controversial economic issues that dominate today's news and social conversations. Students help select the topics from contemporary issues such as globalization, international trade, pollution, taxes, minimum wage, social security, immigration, national debt, college costs, health care, cryptocurrency, and digital monopolies. Various levels of analysis are considered from popular media articles to scholarly academic research. Students work both individually and in groups to research, understand, and create presentations on the topics.

ECON 401  Money & Banking  Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): n/a
Note(s): n/a
Course Description: Review the nature and functions of money, the various monetary standards, the development of our monetary system, the factors affecting the value of money, methods and objectives of money and credit control, international exchange, and analysis of recent developments in money and credit. This course was previously listed as BADM 407.

ECON 402  The Cuban Economy  Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Course involves travel to Cuba
Course Description: Explore economic systems of capitalism, planned socialism, and market socialism. Learn about planned socialism in Cuba and the economic history of pre-socialist and socialist period in Cuba. Review the economic reforms under the Fidel Castro and Raul Castro administrations. This course was previously listed as BADM 403.

ECON 470  Special Topics in Economics  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for economics minors
Course Description: Explore a variety of advanced, economics-oriented topics at the discretion of the instructor and under the supervision of the department head. This course was previously listed as BADM 430-435.

ECON 480  Undergraduate Research in Economics  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for economics minors
Course Description: Engage in a scholarly economics research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. This course was previously listed as BADM 440.

ECON 490  Independent Study in Economics  Three Credit Hours
The Citadel

Prerequisite(s): n/a
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA
Note(s): Minimum grade of "C" or higher for economics minors
Course Description: Engage in a scholarly economics research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. This course was previously listed as BADM 490.

MKTG 301 Principles of Marketing Three Credit Hours
Prerequisite(s): ECON 202
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Explore the process of developing marketing strategy, the role of marketing activities within the firm, external influences that affect the development of marketing strategy, and basic analytical tools appropriate to marketing decision-making. This course was previously listed as BADM 309.

MKTG 302 Personal Branding & Networking Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 4B, 3A, 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Learn how to develop a personal brand and professional network in today's hyper-competitive marketplace. Engage in a detailed self-assessment process to help clarify personal skill sets, values, and career aspirations. Explore the methods of conveying a consistent personal brand, including presentation skills, interviewing and networking skills, using social media, and engaging with professionals through developing a professional network. This course was previously listed as BADM 335.

MKTG 303 Business Development I Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Study the stages of the business development process and the role of sales in the current marketing environment. Explore adaptive selling techniques and developing effective interpersonal communications skills. This course was previously listed as BADM 334.

MKTG 401 Marketing Management Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Integrate the concepts of marketing planning and decision-making from the point of view of the marketing manager in a changing economic, social, and legal environment. Learn concepts and methods of analysis used in formulating product, distribution, promotion, and pricing strategy. This course was previously listed as BADM 401.

MKTG 402 Business Development II Three Credit Hours
MKTG 403  Marketing Analytics & Inquiry  Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Learn how to develop performance measurement systems for marketing channels, incorporating measuring website traffic, conducting market research, estimating usage patterns, and interpreting website visitor behavior. Review online metrics, compare marketing analytics vendors, and develop ways to communicate performance. Explore key concepts and methods of marketing research apply those tools to solve real-life business problems. This course was previously listed as BADM 441.

MKTG 404  Negotiations & Conflict Resolution  Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the theory and practice of dispute resolution using interest-based mediation and negotiation techniques. Gain a broad understanding of mediation and negotiation strategies, learn skills that lead to greater success in managing conflict, and develop confidence in the mediation process as an effective means for resolving interpersonal, organizational, and community disputes. This course was previously listed as BADM 442.

MKTG 405  Create Your Own Adventure  Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Develop and certify individual skill sets for better positioning in the marketplace. This course was previously listed as BADM 443.

MKTG 406  International Marketing  Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore global, cultural and ethical issues, and decision areas facing the marketing manager. Examine cross-cultural differences and the need for careful adaptation of marketing efforts. This course was previously listed as BADM 413.
MKTG 407  Consumer Behavior  Three Credit Hours
Prerequisite(s): MKTG 301
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Study behavioral science theories and related marketing models useful to managers in understanding consumers in domestic and global marketplaces. This course was previously listed as BADM 414.

MKTG 470  Special Topics in Marketing  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for marketing & business development majors
Course Description: Explore a variety of advanced, marketing-oriented topics at the discretion of the instructor and under the supervision of the department head. This course was previously listed as BADM 430-435.

MKTG 480  Undergraduate Research in Marketing  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for marketing & business development majors
Course Description: Engage in a scholarly marketing research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. This course was previously listed as BADM 440.

MKTG 490  Independent Study in Marketing  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA
Note(s): Minimum grade of "C" or higher for marketing & business development majors
Course Description: Engage in a scholarly marketing research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. This course was previously listed as BADM 490.

SCMT 301  Principles of Operations Management  Three Credit Hours
Prerequisite(s): ACCT 202; ECON 201; STAT 160
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for BSBA degrees
Course Description: Examine the processes involved in the sourcing, production,
and delivery of products and services. Address managerial issues such as facility location and layout, service design, demand forecasting, production scheduling, project management, quality management (ex. lean, JIT, Six Sigma, TQM, etc.), inventory management, supply chain management, maintenance and reliability, and capacity management. Learn how to apply decision models, statistical methods, and optimization techniques such as linear programming, queueing theory, simulation, to real world problems. This course was previously listed as BADM 310.

SCMT 302  Quality Management  Three Credit Hours
Prerequisite(s): STAT 160
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the impact of the quality movement on our world during recent decades for both manufacturing and service organizations. Learn how to build and continuously improve quality and customer value throughout the supply chain. Review the contributions of those who are considered prime movers in the quality revolution, including Deming, Crosby, Juran, and Taguchi. Examine current developments in the field and practice using Quality Management techniques, tools, and processes including Lean, Six-Sigma, SPC, ISO 9000, business process improvement, QFD, and others. This course was previously listed as BADM 323.

SCMT 303  Supply Chain Management  Three Credit Hours
Prerequisite(s): STAT 160
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the concepts of supply chains and their effective operation and management. Learn topics such as resource acquisition, contract management, procurement, production, packaging, shipping, warehousing, inventory placement, distribution, transportation, logistics planning, risk, quality, information technology, and product support. This course was previously listed as BADM 429.

SCMT 304  Project Management  Three Credit Hours
Prerequisite(s): STAT 160
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the concepts and tools currently being used in the professional field of Project Management. Obtain a basic understanding of project management principles and practices, increase their ability to function effectively on a project team and as a project manager. This course was previously listed as BADM 329.

SCMT 401  Logistics Management  Three Credit Hours
Prerequisite(s): SCMT 301 or SCMT 303
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Evaluate the role and importance of the key logistics intermediaries that facilitate global trade. Learn the functions comprising logistics, describe how these functions interact, and explain how logistics can be managed as a system to reduce total cost. This course was previously listed as BADM 421.

SCMT 402  \textit{Purchasing & Materials Management}  Three Credit Hours
Prerequisite(s): SCMT 301 or SCMT 303
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): n/a
Course Description: Explore the evolution of supply management and its strategic nature in world-class organizations by learning concepts such as the supply manager’s responsibilities, the “boundary-spanning” nature of supply management, the purchasing process, supplier evaluation and selection, supplier quality and risk management. Review ethical and professional standards expected among supply management professionals and environmental considerations in purchasing and materials management. This course was previously listed as BADM 324.

SCMT 470  \textit{Special Topics in Supply Chain Management}  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for supply chain management majors
Course Description: Explore a variety of advanced, supply chain management-oriented topics at the discretion of the instructor and under the supervision of the department head. This course was previously listed as BADM 430-435.

SCMT 480  \textit{Undergraduate Research in Supply Chain Management}  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Instructor permission required; 3B, 2A, 2B, 1A, 1B
Note(s): Minimum grade of "C" or higher for supply chain management majors
Course Description: Engage in a scholarly supply chain management research project of mutual interest to the student and the sponsoring faculty member that results in a formal student research paper. This course was previously listed as BADM 440.

SCMT 490  \textit{Independent Study in Supply Chain Management}  Three Credit Hours
Prerequisite(s): n/a
Restriction(s): Department permission required; 3B, 2A, 2B, 1A, 1B; minimum 3.0 GPA
Note(s): Minimum grade of "C" or higher for supply chain management majors
Course Description: Engage in a scholarly supply chain management research project of mutual interest to the student and the sponsoring faculty member that will result in professional student work product. This course was previously listed as BADM 490.
### MARKETING & BUSINESS DEVELOPMENT

**First Semester**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1** (2,0)*</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Finite Mathematics</td>
<td>MATH 105</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Principles of Business Analytics</td>
<td>BANA 101</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>1** (1,0)*</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1** (1,0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0** (0,1)</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>ECON 202</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Communications in Business</td>
<td>COMM 216</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>RPED 1xx</td>
<td>0** (0,1)</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>1-2** (2,0)</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0** (1,0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3*** (3,0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Legal &amp; Ethical Environment of Business</td>
<td>BLAW 301</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MKTG 301</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Principles of Operations Management</td>
<td>SCMT 301</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td>3** (3,0)</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0** (1,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Marketing Analytics &amp; Inquiry</td>
<td>MKTG 403</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Negotiations &amp; Conflict Resolution</td>
<td>MKTG 404</td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3       (3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td>3** (3,0)</td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order  
**Indicates graduation requirement for South Carolina Corps of Cadets  
***Indicates ROTC Fulfillment course
### MARKETING & BUSINESS DEVELOPMENT

#### Second Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Science Lecture</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Freshman Science Lab</td>
<td></td>
<td>1 (1,2)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, &amp; Wellness</td>
<td>RPED</td>
<td>260 3</td>
</tr>
<tr>
<td>Statistical Methods</td>
<td>STAT</td>
<td>160 3</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102 1**</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strand Natural Science</td>
<td>NTSS</td>
<td>30x 3</td>
</tr>
<tr>
<td>Applied Business Analytics</td>
<td>BANA</td>
<td>201 3</td>
</tr>
<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT</td>
<td>202 3</td>
</tr>
<tr>
<td>Personal Branding &amp; Networking</td>
<td>MKTG</td>
<td>302 3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Required Physical Education Elective</td>
<td>RPED</td>
<td>1xx 0**</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>202 1-2**</td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strand Elective</td>
<td>ELES</td>
<td>30x 3</td>
</tr>
<tr>
<td>Principles of Finance</td>
<td>FINC</td>
<td>301 3</td>
</tr>
<tr>
<td>Management &amp; Organizational Behavior</td>
<td>MGMT</td>
<td>303 3</td>
</tr>
<tr>
<td>Business Ethics</td>
<td>MGMT</td>
<td>411 3***</td>
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<tr>
<td>Business Development I</td>
<td>MKTG</td>
<td>303 3</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td>3** (3,0)</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>CRN</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Capstone</td>
<td>GEND</td>
<td>422 3</td>
</tr>
<tr>
<td>Strategic Management</td>
<td>MGMT</td>
<td>449 3***</td>
</tr>
<tr>
<td>Marketing Management</td>
<td>MKTG</td>
<td>401 3</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td>3** (3,0)</td>
</tr>
</tbody>
</table>

REQUIRED FOR GRADUATION FOR ALL MARKETING & BUSINESS DEVELOPMENT MAJORS: 121 credit hours

REQUIRED FOR GRADUATION FOR ALL MARKETING & BUSINESS DEVELOPMENT MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS: 121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
**SUPPLY CHAIN MANAGEMENT**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDRS 101</td>
<td>2</td>
</tr>
<tr>
<td>FSEM 101</td>
<td>1</td>
</tr>
<tr>
<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>3</td>
</tr>
<tr>
<td>BANA 101</td>
<td>3</td>
</tr>
<tr>
<td>101</td>
<td>1</td>
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**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LDRS 201/211</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>3</td>
</tr>
<tr>
<td>COMM 216</td>
<td>3</td>
</tr>
<tr>
<td>ENGS 30x</td>
<td>3</td>
</tr>
<tr>
<td>LDRS 201</td>
<td>1</td>
</tr>
<tr>
<td>RPED 1xx</td>
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**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LDRS 311</td>
<td>1</td>
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<tr>
<td>LDRS 371</td>
<td>3</td>
</tr>
<tr>
<td>HISS 30x</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 301</td>
<td>3</td>
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<td>SCMT 301</td>
<td>3</td>
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<td>SCMT 302</td>
<td>3</td>
</tr>
<tr>
<td>LDRS 411</td>
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**Fourth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SCSS 30x</td>
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<tr>
<td>SCMT 401</td>
<td>3</td>
</tr>
<tr>
<td>SCMT 411</td>
<td>3</td>
</tr>
<tr>
<td>LDRS 411</td>
<td>1</td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order
**Indicates graduation requirement for South Carolina Corps of Cadets
***Indicates ROTC Fulfillment course
## SUPPLY CHAIN MANAGEMENT
### Second Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Science Lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshman Science Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, &amp; Wellness</td>
<td>RPED</td>
<td>260</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>ECON</td>
<td>201</td>
</tr>
<tr>
<td>Statistical Methods</td>
<td>STAT</td>
<td>160</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NTSS</td>
<td>30x</td>
</tr>
<tr>
<td>Applied Business Analytics</td>
<td>BANA</td>
<td>201</td>
</tr>
<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT</td>
<td>202</td>
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<td>Business Elective</td>
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<tr>
<td>General Elective</td>
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<td></td>
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<tr>
<td>Required Physical Education Elective</td>
<td>RPED</td>
<td>1xx</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>202</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td>JUNIOR YEAR</td>
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<td></td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELEC</td>
<td>30x</td>
</tr>
<tr>
<td>Business Finance</td>
<td>FINC</td>
<td>301</td>
</tr>
<tr>
<td>Management &amp; Organizational Behavior</td>
<td>MGMT</td>
<td>303</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MKTG</td>
<td>301</td>
</tr>
<tr>
<td>Supply Chain Management</td>
<td>SCMT</td>
<td>303</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td>3**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SENIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Capstone</td>
<td>GEND</td>
<td>422</td>
</tr>
<tr>
<td>Strategic Management</td>
<td>MGMT</td>
<td>449</td>
</tr>
<tr>
<td>Purchasing &amp; Materials Management</td>
<td>SCMT</td>
<td>402</td>
</tr>
<tr>
<td>Major Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Elective</td>
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<td></td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td>3**</td>
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<td></td>
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</tr>
<tr>
<td>REQUIRED FOR GRADUATION FOR ALL SUPPLY CHAIN MANAGEMENT MAJORS: 121 credit hours</td>
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</tr>
</tbody>
</table>

REQUIRED FOR GRADUATION FOR ALL SUPPLY CHAIN MANAGEMENT MAJORS IN THE SOUTH CAROLINA CORPS OF CADETS: 121 credit hours plus successful completion of all LDRS, ROTC, and RPED graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
ZUCKER FAMILY SCHOOL OF EDUCATION

Col. Evan T. Ortlieb, Dean
The purpose of the Zucker Family School of Education’s undergraduate programs is to serve the people of the Lowcountry, the state of South Carolina, the Southeast, and the nation by providing high quality programs in the preparation of secondary teachers (grades 9-12) and K-12 programs in physical education and modern languages (French, German and Spanish). While approximately fifty percent of the undergraduate student body is from the state of South Carolina, students from across the United States are involved in education programs at The Citadel. Reciprocal arrangements with other states and the accreditation/approvals of the Council for the Accreditation of Educator Preparation (CAEP), and the Interstate Teacher Assessment and Support Consortium (InTASC) facilitate certification in all fifty states.

Statement of Philosophy

The philosophy of the Zucker Family School of Education at The Citadel is based on five fundamental propositions. These propositions serve to orient the mission and conceptual base of the School, guide the actions and value system of the faculty, shape the curricula of the various programs, and provide to its faculty their sense of purpose and meaning for teaching, scholarship, and professional service. These five propositions are:

1. The faculty is committed to promoting education for all individuals to the fullest extent possible. With the implementation of appropriate teaching and assessment strategies, a fundamental guiding belief is that all students, though having unique learning styles and experiences, are capable of learning.

2. It is the educator’s responsibility, with the aid of appropriate resources and support, to establish a mutually respectful environment where effective learning occurs for all students.

3. Education is a systematic effort to facilitate the knowledge, skills, attitudes and values necessary for the student to function in a diverse society.
(4) The faculty is committed to upholding the highest professional standards in all situations in which they model these standards to students through their teaching, research, and service endeavors.

(5) The faculty is committed to an open interchange of ideas wherein the perspectives of all are valued.

The School’s Mission

The mission of the Zucker Family School of Education at The Citadel is to support the development and preparation of individuals who are knowledgeable about the learning process and learners and who are effective, ethical, and reflective educators prepared to assume leadership roles in the profession and community. Further, with a focus toward learner-centered education, they are effective in educating a diverse learner population to high academic standards. The mission is based on the School’s philosophy and conceptual model.

Conceptual Framework of
The Citadel’s Professional Education Unit

Developing Principled Educational Leaders for P-20 Schools

The Citadel’s Professional Education Unit prepares principled educational leaders to be knowledgeable, reflective, and ethical professionals. Candidates completing our programs are committed to ensuring that all students succeed in a learner-centered environment.

The Citadel’s Professional Education Unit is committed to the simultaneous transformation of the preparation of educational leaders and of the places where they work. Specifically, The Citadel’s Professional Education Unit seeks to develop principled educational leaders who:

• have mastered their subject matter and are skilled in using it to foster student learning;

• know the self who educates (Parker J. Palmer) and integrate this self knowledge with content knowledge, knowledge of students, and in the context of becoming professional change agents committed to using this knowledge and skill to ensure that all students succeed in a learner-centered environment; and

• exemplify the highest ethical standards by modeling respect for all human beings and valuing diversity as an essential component of an effective learner-centered environment.

The Citadel’s Professional Educational Unit is committed to high-quality, evidence-based educator preparation that assures educators are ready to work effectively with all learners. Our vision is to transform our cadets, evening undergraduate students, and graduate students into principled educational leaders prepared to produce learning environments in which all students can be successful. Our initial programs for teacher candidates focus on developing educators prepared for highly diverse learners, including students with disabilities, those from economically disadvantaged communities, and those who are culturally, ethnically, and linguistically diverse. Our advanced programs are focused on preparing professional leadership and service roles in P-20 settings.
The Citadel’s Professional Education Unit has identified 15 performance indicators for candidates to demonstrate that they are principled educational leaders who are knowledgeable, reflective, and ethical professionals:

**Knowledgeable Principled Educational Leaders…**
1. have mastered the subject matter of their field of professional study and practice;
2. utilize the knowledge gained from developmental and learning theories to establish and implement an educational program that is varied, creative, and nurturing;
3. model instructional and leadership theories of best practice;
4. integrate appropriate technology to enhance learning;
5. demonstrate a commitment to lifelong learning.

**Reflective Principled Educational Leaders…**
6. develop and describe their philosophy of education and reflect upon its impact in the teaching and learning environment;
7. develop and manage meaningful educational experiences that address the needs of all learners with respect for their individual and cultural experiences;
8. construct, foster, and maintain a learner-centered environment in which all learners contribute and are actively engaged;
9. apply their understanding of both context and research to plan, structure, facilitate, and monitor effective teaching and learning in the context of continual assessment;
10. reexamine their practice by reflectively and critically asking questions and seeking answers.

**Ethical Principled Educational Leaders…**
11. demonstrate commitment to a safe, supportive, learning environment;
12. embrace and adhere to appropriate professional codes of ethics;
13. value diversity and exhibit a caring, fair, and respectful attitude and respect toward all cultures;
14. establish rapport with students, families, colleagues, and communities;
15. meet obligations on time, dress professionally, and use language appropriately.

**Director of Teacher Education**

The Director of Teacher Education is the college official charged with the responsibility for the development, implementation, administration, and monitoring of all teacher education activities at The Citadel. The director assures that all Citadel programs meet the standards and criteria set forth by:
1. The South Carolina General Assembly
2. The South Carolina Department of Education
3. The Council for Accreditation of Educator Preparation (CAEP)
Teacher education at The Citadel is dedicated to the development of teachers for the public schools of the state and nation. Teacher education programs prepare students to teach in secondary schools (grades 7-12). In addition, a program for K-12 certification is available in physical education (see the Department of Health and Human Performance section for additional information) and in modern languages (see the Department of Modern Languages, Literatures, and Cultures for additional information).

**Admission to the Major**

Admission to an Education Major at The Citadel is a three-level process. Students should read this section carefully so that this process is well understood.

**Assignment to Pre-Education**

Students who are interested in the teaching profession are first assigned to Pre-Education, Pre-Physical Education (Teaching Track), or to biology, chemistry, and modern language majors that include a concentration in teacher education. For those interested in Physical Education (Teaching Track), please refer to the requirements of the Department of Health and Human Performance. At the Pre-Education level, it is the student’s responsibility to achieve passing scores—as determined by the South Carolina Department of Education—on the PRAXIS Core Academic Skills for Educators tests. Students should take the PRAXIS core exams during their sophomore year and are responsible for ensuring that official records of passing scores are on file at The Citadel. Also, students—in consultation with their faculty advisors—are responsible for following the appropriate curriculum. In addition, students need to pay attention to their cumulative grade point average (GPA) since a 2.750 cumulative GPA is required for admission into teacher education senior level study.

**Admission to Education Major**

To be admitted to the teacher education senior level study or to content majors that include a concentration in teacher education, the student enrolled in pre-education must have the support of his or her advisor relative to suitability and interest (e.g., dispositions) in teacher education and must also have:

1. official passing scores on all three parts of PRAXIS core exams on file at The Citadel;
2. maintained a cumulative Grade Point Average of 2.750 or higher on at least 45 credit hours of coursework taken at The Citadel;
3. passed EDUC 101 and EDUC 202.
Admission to the Internship in Teaching (EDUC 499 or PHED 499)

Students must make a formal application for admission no later than the beginning of the fall semester of their junior year. The internship is not normally offered to students in fall semesters. This application will be reviewed by the Committee on Admissions and Retention and will include, among other things, recommendations from professors in completed professional education and content area courses, recommendations from general education faculty, and an evaluation by the student’s advisor regarding the student’s suitability and interest in teacher education. In addition, the student must have:

1. completed all professional education courses and content coursework;
2. on file at The Citadel South Carolina State Department of Education clearance through the FBI and SLED;
3. a cumulative GPA of at least 2.750;
4. completed successfully all previous field experiences;
5. on file at The Citadel official records of the appropriate PRAXIS II test score(s). It is strongly recommended that students take the Principles of Learning and Teaching (PLT) test as soon as they have completed EDUC 101, EDUC 202 and EDUC 312.

The Director of Teacher Education will be informed of the results of this review and will send official notice of admission or rejection to the student. In the absence of significant extenuating circumstances, a student not eligible for the Internship in Teaching will be required to change majors.

Graduation Requirements

To meet graduation requirements, the Teacher Education major must complete all requirements for one of the teaching field courses of study and must have earned a GPA of at least 2.750. In addition, passing scores on the appropriate PRAXIS II and Principles of Learning and Teaching (PLT) exams must be on file at The Citadel.

Completion of the curricular requirements may result in licensure by the South Carolina Department of Education. A grade of “B” or better in EDUC 499 is necessary to quality for teacher certification recommendation.

The Professional Education Board

To facilitate the college-wide mission of preparing principled leaders for professional education, The Citadel established (effective fall of 2006) the Professional Education Board (PEB). The Citadel PEB’s primary focus is to foster academic environments that promote the development of principled leaders for the education profession and to facilitate the continuing improvement of professional education programs across the college. In pursuing these goals, the PEB will concentrate on communication, assessment, and governance issues. The Citadel’s Dean of the School of Education chairs the Board, and it is comprised of representatives from all of The Citadel’s professional education constituencies, including faculty, staff, students, and our P-12 colleagues. PEB members are appointed by the Dean of the School of Education in collaboration with the Deans of Humanities and Social Sciences and Science and Mathematics. The Professional Education Board meets monthly during each academic year.
Minor in Education

Objectives:
The minor in education is designed to help undergraduate students gain knowledge of educational history, theories, laws, and policies; become familiar with aspects of student development that may impact learning; think critically about social justice issues in education; and learn differentiated instructional techniques and classroom management strategies for working with diverse learners. The minor may be appropriate for undergraduate students who are interested in volunteering in public schools, teaching in private or nontraditional programs, and/or working in other educational settings (e.g., children’s museums, youth service programs, training and professional development).

Competencies, Knowledge, or Skills to Be Achieved:
While students who pursue the minor will not be eligible for teacher licensure or certification, they will receive a strong foundational background in the field of education and will have the opportunity to complete field experiences in local schools. Coursework may also assist students in meeting prerequisites for graduate study in education.

Structure of the Minor:
1. Required courses (6 credit hours)
   - EDUC 101  Education in Modern Society
   - EDUC 202  Educational Psychology
2. Required course in student development (3 credit hours)
   One of the following courses:
   - EDUC 206  Adolescent Development
   - EDUC 307  Child Development
3. Required course in social justice (3 credit hours)
   One of the following courses:
   - EDUC 312  Learners with Exceptionalities
   - EDUC 409  Special Topics in Education: Teaching Culturally and Linguistically Diverse Students
4. Required course in pedagogy (3 credit hours)
   One of the following courses:
   - EDUC 301  Foundations in Literacy
   - EDUC 330  Developing Leadership Skills through Peer Counseling
   - EDUC 401  Methods and Materials of Middle and High School Teaching
   - EDUC 409  Special Topics in Education: Classroom Assessment

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.
Education Course Descriptions

EDUC 101  *Education in Modern Society*  Three Credit Hours
Open to any interested student.
An orientation to teaching as a profession and to the teacher-training program. Study and discussion on school organization and teachers’ roles and responsibilities; personal and professional guidance. Introduction to the learner-centered conceptual base of the department. A field experience component of ten hours is required.

EART 201  *Introduction to Earth Science*  Four Credit Hours
A study of the materials and major processes of the earth including minerals and rocks, plate tectonics, hydrology, volcanoes, mountain building, oceanography and weather and climate. The geologic history of the earth and the fossil record will also be included. *Emphasis will be on Earth Space content for teaching in middle and secondary schools.*
Lecture: three hours; laboratory: one hour

EDUC 202  *Educational Psychology*  Three Credit Hours
This course focuses on the dynamics of human learning and the psychological principles that serve as the foundation for educational practice. The general goal is to introduce students to the field of educational psychology and to teach them how to apply the concepts, theoretical principles, and research findings from the discipline of psychology to the planning and implementation of effective instructional strategies in the classroom. Major emphasis is placed on assisting the student in gaining a functional knowledge of the ideas explored. Moreover, through this course the college student who is preparing for employment in the field of education is acquainted with many facets of the teacher’s role as a decision maker in the teaching/learning process. Class discussions, activities, and a ten-hour field experience component focus on the connections between theory and practice and provide students with opportunities to apply psychological principles and solve practical problems.

EDUC 206  *Adolescent Development*  Three Credit Hours
A survey of the basic principles and theories of human development with a focus on adolescents and their educational processes. The field experience component is designed to interrelate college classroom learning with public school observations and activities.

EDUC 301  *Foundations in Reading*  Three Credit Hours
A foundational course designed to develop competencies in teaching literacy skills. The content of this course examines the theoretical research and historical perspectives as related to reading education. Five components of a balanced literacy program are examined and these components are based on research of the National Reading Panel. Approaches to reading are examined as phonics; sight; linguistic; language experience approach; and the VAKT. Literacy educators and pioneers in reading education as Chall, Flesch, Fries, Allen, and Fernald are discussed to provide background information from a historical prospective to assure that students will have a knowledge of foundations. A field experience component of ten hours is required.
EDUC 306  
*Teaching Reading and Writing in the Middle and High School*  
Three Credit Hours

Prerequisites: EDUC 101, EDUC 202, EDUC 301, EDUC 401, and Admission to Senior Level Study - GPA at least 2.750, passing PRAXIS Core Exams or equivalent, and acceptable professional dispositions.

Designed to acquaint prospective middle school and high school teachers with reading practices geared to their students. The course will include a broad survey of the field of reading with attention given to some diagnostic procedures and the development of Reading Across the Curriculum programs for the middle school and high school levels. Different subject areas will be considered. Ten hours of field experiences in a public school are required.

EDUC 307  
*Child Development*  
Three Credit Hours

Acquisition of understanding and appreciation of the mental, physical, social, and emotional aspects of development in childhood. Emphasis on techniques of motivation, principles of learning, learning styles, individual differences, and developmental problems. A field experience component of ten hours is required.

EDUC 312  
*Learners with Exceptionalities*  
Three Credit Hours

This course is designed to prepare prospective teachers to define and identify characteristics of students with disabilities and students at risk for school failure. Students will learn how to modify teaching methods and classroom management strategies to address the academic, social and emotional, and cognitive differences of students with special needs. *Learners with Exceptionalities* is based on the premise that it is the teacher’s responsibility to meet the needs of every learner, typical or atypical. A field experience component of ten hours is required.

EDUC 330  
*Developing Leadership Skills through Peer Counseling*  
Three Credit Hours

This course investigates the role, responsibilities, and personal commitments of Peer Counselors (PC) within the Corps of Cadets, the Active Duty and Veteran undergraduate student body at The Citadel. The course is designed for undergraduate students earning a Minor in Leadership Studies, and provides training and experiential activities to develop and reinforce the skills necessary to provide supportive services to fellow students through a peer counseling process.

EDUC 401  
*Methods and Materials of Middle and High School Teaching*  
Three Credit Hours

Study of the aims, methods, and materials employed in middle and high school teaching; organization of subject matter; motivation and direction of learning; development of attitudes, appreciations, and ideals; classroom presentation of formal materials. The utilization of technology and the development and use of evaluative instruments in the total teaching-learning process will be emphasized. A field experience component of 20 hours is required. Upon completion of this course, students should take the Praxis II content area test.
EDUC 402  Special Methods in Teaching  Three Credit Hours
Prerequisites: Admission to Senior Level Study
Special techniques, theories, and materials in teaching in the content area of specialization in middle school (grades 5-8) and high school (grades 9-12). A field experience component of 20 hours is required.

EDUC 409  Special Topics in Education  Three Credit Hours
Prerequisite: permission of the instructor and/or department head
A course designed for the intensive study of a current problem in the field of education at the undergraduate level.

EDUC 420  Independent Study/Research  Three Credit Hours
Prerequisite: permission of the instructor and/or department head
This course will offer students an opportunity to acquire a deeper knowledge in the area of specialized interest related to the field of education. Prior to enrollment, each student must submit a plan of study to the department. A formal research paper will be required. Credit in independent study/research is limited to 3 semester hours in a degree program.

EDUC 499  Internship in Teaching  Twelve Credit Hours
Prerequisites: Refer to requirements for admission to internship.
A requirement for certification, observation and teaching in approved schools under approved supervising teachers, supervision by college instructor. Assignment only in major teaching field. This internship is a minimum of twelve weeks and contains a weekly seminar. All students provide their own transportation. Formal application for admission to the Spring internship in teaching must be made no later than the beginning of the fall semester of the junior year.
## EDUCATION
### SOCIAL STUDIES PRE-EDUCATION
#### First Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td><strong>Freshman Math</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Education in Modern Society</td>
<td>EDUC 101</td>
<td>3</td>
</tr>
<tr>
<td>History of World Civilization I</td>
<td>HIST 105</td>
<td>3</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td></td>
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</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
</tr>
<tr>
<td>Adolescent Development</td>
<td>EDUC 206</td>
<td>3</td>
</tr>
<tr>
<td>American National Government</td>
<td>PSCI 102</td>
<td>3</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Sociology</td>
<td>SOCI 201</td>
<td>3</td>
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<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements."
### EDUCATION

#### SOCIAL STUDIES PRE-EDUCATION

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Freshman Science</strong></td>
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<td>(3,2)</td>
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<tr>
<td>Educational Psychology</td>
<td>EDUC 202</td>
<td>3</td>
</tr>
<tr>
<td>Communication in Business</td>
<td>Comm 216</td>
<td>3</td>
</tr>
<tr>
<td>History of World Civilization II</td>
<td>HIST 106</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology</td>
<td>PSYC 201</td>
<td>3</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td>102</td>
<td>1</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
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<tbody>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>30x</td>
<td>3</td>
</tr>
<tr>
<td>Foundations in Reading</td>
<td>EDUC 301</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Anthropology</td>
<td>ANTH 202</td>
<td>3</td>
</tr>
<tr>
<td>Approved Social Studies Elective</td>
<td>3</td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED</td>
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</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Students in Pre-Education are eligible to transfer into the Education Major upon meeting the requirements for admission to Senior Level Study as follows:

1. Submitted official passing scores on all three parts of PRAXIS core exams to The Citadel as well as the South Carolina Department of Education.
2. Maintained a cumulative GPA of 2.750 or higher;
3. Passed both EDUC 101 and EDUC 202 with a grade of “C” or better.

Students who are not qualified to move into Education major senior level study will not be permitted to enroll in EDUC 306, EDUC 402 or EDUC 499.
# SOCIAL STUDIES EDUCATION MAJOR

## First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Leadership in Organization</td>
<td>LDRS 371</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>***Urban Politics</td>
<td>PSCI 302</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>World Geography</td>
<td>GEOG 209</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Survey of American History I</td>
<td>HIST 201</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Learners with Exceptionalities</td>
<td>EDUC 312</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Non-Western History 300-level Elective</td>
<td>HIST 3</td>
<td>3 (3,0)</td>
</tr>
</tbody>
</table>

### 1st Year Advanced ROTC

*Represents semester credit, lecture, and laboratory hours, in that order.

**Selected from anthropology, geography, political science, economics, psychology, or history.

***Or PSCI 306 - Legislative Processes

Or PSCI 307 - Southern Politics

Or PSCI 401 - Political Issues and Public Policy

## Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Social and Cultural History of the</td>
<td>HIST 206</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Non-Western World</td>
<td>EDUC 306</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Teaching Reading in the Secondary School</td>
<td>EDUC 402</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Special Methods in Teaching</td>
<td>EDUC 202</td>
<td>3 (3,0)</td>
</tr>
</tbody>
</table>

### 2nd Year Advanced ROTC
SOCIAL STUDIES EDUCATION MAJOR
Second Semester

JUNIOR YEAR
Methods and Materials of Middle & High School Teaching... EDUC 401 3 (3,0)
Strand English................................. ENGS 30x 3 (3,0)
Survey of American History II.............. HIST 202 3 (3,0)
History Elective................................ HIST 3 (3,0)
**Approved Social Studies Elective........ 3 (3,0)
Required Physical Education.................
1st Year Advanced ROTC

SENIOR YEAR
*Internship in Teaching...................... EDUC 499 12
2nd Year Advanced ROTC......................

NOTES: Education majors must make a formal application for admission to the Internship in Teaching (EDUC 499) two semesters prior to their internship. To be eligible for the internship, students must have
1) completed all professional education and content coursework;
2) on file at The Citadel South Carolina State Department of Education clearance through the FBI and SLED;
3) a cumulative GPA of at least 2.750;
5) completed successfully all previous field experiences;
6) on file at The Citadel official records of the appropriate PRAXIS II test score(s) and the appropriate Principles of Learning and Teaching (PLT) test score. It is strongly recommended that students take the PLT as soon as they have completed EDUC 101, EDUC 202 and EDUC 312.

For non-contract students, ROTC credit is included in the internship hours due to high impact practices.

REQUIRED FOR GRADUATION: 121 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
SCHOOL OF ENGINEERING

Col. Ronald W. Welch, Dean

Department of Civil and Environmental Engineering
Col. William J. (Jeff) Davis, Head

Department of Electrical and Computer Engineering
Col. Robert Barsanti, Head

Department of Engineering Leadership and Program Management
Lt. Col. Robert Rabb, Head

Department of Mechanical Engineering
Lt. Col. Robert Rabb, Head
Department of Civil & Environmental Engineering, and Construction Engineering Program

Department Head and Program Director: Davis
Professors: Bower, Davis, Mays, Welch
Associate Professors: Ghanat, Michalaka, Watson
Assistant Professors: Batouli, Brown, Burke, Giles, Laughton, Ryan, Shetty, Wood
Visiting Professor: Nale

Department’s Mission Statement

The mission of the Civil and Environmental Engineering (CEE) and Construction Engineering (CONE) program is to provide a nationally recognized student-centered learning environment for the development of principled leaders in the civil engineering and construction engineering communities through a broad-based, rigorous curriculum, emphasizing theoretical and practical engineering concepts, strong professional values, and a disciplined work ethic.

The Department of Civil and Environmental Engineering and Construction Engineering Program recognizes that civil engineers and construction engineers are people-serving professionals who manage resources as well as technology. Civil engineers and construction engineers plan, design, construct, and maintain facilities essential to modern life in both the public and private sectors. Accordingly, the Department strives to develop the skills of its engineering students in the management of resources—time, materials, money, and people through effective combination of the academic with military discipline. Consistent with the high aims of the civil engineering and construction engineering professions, the department seeks to ensure its academic program is underpinned by a broad base of ethical knowledge and behavior as well as modern leading-edge technology. The department accomplishes its mission by connecting students, faculty, and staff in a unique academic environment, achieving the intended development of the student through the enriched personal, professional, and educational growth of each individual.
Goals and Objectives

Program Educational Objectives

Civil Engineering program and Construction Engineering program educational objectives for graduates to attain within 3-5 years after graduation are as follows:

**Design:** Graduating students who are successful in engineering based on a course of study focused on design, including a solid theoretical and practical foundation that leads to successful employment in the private and public sectors.

**Sustainable Success:** Graduating students who have sustainable career success and participate in leadership roles through demonstration of lifelong learning, effective communication, contributions on multidisciplinary teams, and broad based prospective of engineering and societal needs.

**Broad Based Education:** Graduating students who have a broad educational background that leads to good citizenship through leadership, management, decision making and problem solving abilities.

Departmental Core Values

The Department of Civil and Environmental Engineering and Construction Engineering program has adopted the following core values:

**Students are our Focus:** We believe the education, development, empowerment, and welfare of our students are the primary focus of our efforts.

**Civil Engineers and Construction Engineers as Principled Leaders:** We believe the engineering profession requires the highest professional and ethical standards, which we seek to model, teach and prepare our students to embrace.

**Collaborative Teaching and Learning Environment:** We believe a collaborative collegial environment among our faculty, staff and students is critical in sustaining advancement in educational excellence.

**Growth through Assessment:** We believe data-driven inquiry and improvement will lead us to sustained advancement in educational excellence.

Civil Engineering and Construction Engineering Student Outcomes

At the time of graduation from the civil engineering program and construction engineering program, a student should achieve an acceptable level of skills and knowledge in the following student outcomes:

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. Function effectively on a team whose members together provide leader-
ship, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Civil Engineering Program of Study

The Civil and Environmental Engineering Department’s four-year program begins with courses which provide a foundation of knowledge and skill in the basic arts and sciences. Limited specialization in engineering starts during the sophomore year. In the junior and senior years, the time is devoted essentially to basic professional subjects. Throughout the four years, the program emphasizes the development of habits of orderly study, investigation, sound reasoning, problem-solving and design, rather than the mere acquisition of factual information. It is stressed that an engineer is a professional thoroughly grounded in engineering science and technology, but also aware of the social, economic, ethical, and ecological implications of professional activities. The Citadel’s Bachelor’s degree program in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. Each year the curriculum is augmented by off-campus educators and engineers who lecture and moderate seminars in engineering specialties. Students’ sources of knowledge are broadened by participation in these seminars and the student chapters of the American Society of Civil Engineers, Tau Beta Pi (honorary engineering society), the Society of American Military Engineers, and the Society of Women Engineers (SWE) and the National Society of Black Engineers.

LeTellier Hall was designed for the needs of civil and environmental engineering education and contains, in addition to laboratories, six multi-media classrooms and one multi-media assembly room that contains additional audiovisual aids for special lectures and society meetings. There are three computer facilities located in LeTellier Hall. To help ensure the best use of these facilities, priority access goes to students using software or capabilities specific to the LeTellier sites.

All undergraduate courses taken at The Citadel with a subject prefix of CIVL will count towards the major GPA.

Construction Engineering Program of Study

The construction engineering curriculum provides a broad-based education, a strong background in mathematics and basic sciences, and a rigorous sequence of civil and construction engineering courses needed to provide the breadth and depth necessary for sustainable professional success within an ever-changing technological society. An emphasis is placed on engineering and constructability knowledge and skills that develop student’s practical problem-solving abilities for application to real-world projects. Towards accomplishing this educational goal, the curriculum provides a two-semester senior design course in which students undertake significant real-world focused construction engineering projects. Additionally, our faculty promote and support the value of practical experience, and as a result, students are highly encouraged and supported in identifying opportunities and obtaining gainful employment in the construction engineering profession, or a related field, for at least one summer, preferably between the junior and senior years.

All undergraduate courses taken at The Citadel with a subject prefix of CIVL and CONE will count towards the major GPA.
Main Computer Lab — LeTellier 203

LeTellier 203 is the primary teaching and student-use computer facility in the Civil and Environmental Engineering Department. The twenty-four student stations and one projection-capable instructor station and laser printer located in this lab are connected to the campus-wide network, and provide direct Internet access via Ethernet. The software in the labs is Windows based. The department’s standard general purpose software includes: Microsoft Office, Mathcad, AutoCAD, and ArcGIS. In addition, there are a number of course-specific software packages. Faculty also post: classroom presentations, handouts, programming examples, class notes, and solutions to tests and homework online. These postings are in a mixture of formats including PDF files, Mathcad documents, spreadsheet files, executable programs, and multimedia presentation files that students may review as needed before and after class.

Special Application Lab — LeTellier 206

LeTellier 206 hosts the Civil and Environmental Engineering Department Special Applications Lab. The 21 student dual monitor computers and instructor podium computer station serve primarily as AutoCAD Civil 3D, GIS (ArcView) and structural design workstations. Other uses involve construction management, Global Positioning System (GPS) data analysis/adjustment, and traffic engineering studies. Occasionally, small sections of courses may be scheduled in the lab utilizing the instructors-only workstation and projection system. This laboratory is equipped with a networked A-B size laser printer and E-size plotter.

Graphics Lab — LeTellier 308

LeTellier 308 is the home of the Civil and Environmental Engineering Department Graphics Instruction Lab. The instructor’s station is equipped with a projection system for both the computer and document camera. The twenty student computers serve primarily as AutoCAD and ArcGIS workstations. This laboratory is equipped with a networked A/B size laser printer.

Materials Testing Laboratory: Major items of equipment include a 300,000 pound concrete cylinder testing machine; two 60,000-pound hydraulic universal testing machine; and equipment for making tension, compression, shearing, and most other accepted and significant tests on metals concrete, wood and other structural materials.

Construction Materials Laboratory:
Bituminous Materials Testing. This laboratory contains equipment for making the significant quality control and identification tests on asphalt cements. Equipment for the design, mixing, compaction by both hammer and gyratory means, and testing of asphalt concrete paving mixtures by the Marshall and Superpave methods are included.

Concrete Materials Testing: A curing room, mixing equipment, air entraining measuring apparatus, scales, and other minor equipment are provided in this laboratory. Testing is accomplished using materials laboratory equipment.
Geotechnical Laboratories: The soil laboratory is equipped with consolidmeters, triaxial and direct shear machines, unconfined compression machines, permeameters, Atterberg limit equipment, Proctor and Modified AASHTO Proctor compaction apparatus, standard sieves, soil hydrometers, C.B.R. apparatus, and other equipment needed for tests and experiments with soils.

Fluid Mechanics Laboratory: Equipment is provided for a wide variety of experiments and tests involving the flow of water over weirs or through pipes, meters, orifices, or a Parshall flume. Other major items of equipment include a head loss and flow measurement fluid circuit apparatus, a Reynolds number device, two (2) hydraulic demonstration units permitting experiments involving many phenomena of open channel flow, and a centrifugal pump equipped to measure input and output of energy. In addition, a parallel-series pumping unit is available for students to study parallel-series pumping under a variety of system conditions.

Environmental Engineering Laboratory: Equipment is provided for water analysis determination (primarily according to “Standard Methods”) of pH, alkalinity, turbidity, conductivity, D.O., and color. Bacteriological examinations may also be made for wastewater analysis, biochemical oxygen demand, solids content and coliform testing. The equipment includes incubators, a muffle furnace, pH meters, dissolved oxygen probes, electrophotometric devices, a constant temperature refrigerator, a spectrophotometer, a drying oven, a type I water generator, a fume hood, a microscope, and essential minor tools and equipment.

Other engineering equipment: Adequate equipment is available for the courses in engineering graphics, surveying, geospatial representation, as well as for the junior and senior courses. This equipment includes levels, level rods, tapes, total stations, data collectors, and Global Positioning System (GPS) survey grade receivers.

Fundamentals of Engineering Examination: Each graduating student is required to sit the Fundamentals of Engineering (FE) Examination and provide documentation to the department head.

Degree: The degree of Bachelor of Science in Civil Engineering (B.S. in C.E.) or Bachelor of Science in Construction Engineering (B.S. in Con. E.) is awarded to those who successfully complete the respective programs of studies outlined in the course offerings section of this catalog.
Minor in Civil and Environmental Engineering

Objective:
Provide engineering students from other departments the opportunity to obtain a minor in a single civil engineering technical area.

Competencies, Knowledge, or Skills to be Achieved:
A student who completes this minor will have the opportunity to develop a basic competency in civil engineering, apply basic engineering principles to another field, stimulate creative thinking, and develop problem solving skills. Through the elective field of emphasis, the student will achieve additional knowledge or skill in either structures or environmental.

Structure of the Minor:
1. Required courses: (10 credit hours)
   - CIVL 202 Statics, 3 credit hours
   - CIVL 203 Dynamics, 3 credit hours
   - CIVL 304 Mechanics of Materials, 3 credit hours
   - CIVL 307 Mechanics of Materials Laboratory, 1 credit hour

2. Civil and Environmental Engineering Fields of Emphasis
   a. Structures: (12 credit hours)
      - CIVL 309 Structural Analysis, 4 credit hours
      - CIVL 314 Engineering Economy, 2 credit hours
      - CIVL 404 Concrete Design, 3 credit hours
      - CIVL 406 Steel Design, 3 credit hours
   OR
   b. Environmental: (13 credit hours)
      - CIVL 320 Fluid Mechanics, 3 credit hours
      - CIVL 321 Hydrology and Hydraulics, 3 credit hours
      - CIVL 322 Intro to Environmental Engineering, 3 credit hours
      - CIVL 408 Water and Wastewater Systems, 3 credit hours
      - CIVL 418 Fluid Mechanics Lab, 1 credit hours

Plan of Study: Prerequisites and corequisites for each of the above courses must be met as presented in the course descriptions.

Total Credit Hours Required: 22 for Structures or 23 for Environmental, at least 9 of which must be completed at The Citadel.

Minor in Construction Engineering

Objective:
Provide engineering students, business students and students from other departments the opportunity to obtain a minor in fundamental aspects of construction engineering. The minor in Construction engineering will provide students with practical knowledge; quantitative and scientific aptitudes and basic level of competence in construction engineering.

Competencies, Knowledge, or Skills to be Achieved:
A student who completes this minor will have the opportunity to obtain
foundational perspectives of the field of construction engineering and to gain a working knowledge of construction scheduling, estimating, safety, contracts, and project management. A student who completes this minor will have the opportunity to develop a strong foundational background in construction engineering, apply basic engineering principles, stimulate creative thinking, and develop problem solving skills. Completion of coursework can assist students in meeting prerequisites for graduate study in construction engineering or related fields.

Structure of the Minor:
To earn a minor in Construction Engineering, a student must complete a minimum of fifteen (15) credit hours of course work, distributed as follows:

1. Required courses: (6 credit hours)
   - CONE 415  Project Management & Engineering Administration, 3 credit hours
   - CONE 311 Resource Estimating, 3 credit hours

2. Elective Fields of Emphasis (choose any 3 courses):
   - CONE 302 Engineering/Construction Law, Ethics, Safety, and Contracts, 4 credit hours
   - CONE 312 Advances Estimating, 3 credit hours
   - CONE 330 Quality Management and Labor Relations, 3 credit hours
   - CONE 350 Commercial Construction & Engineering Equipment, 3 credit hours
   - CONE 410 Project Scheduling, 3 credit hours
   - CONE 450 HFacilities Operations and Maintenance (BIM), 3 credit hours
   - CIVL 331 Probability & Statistics for Civil & Cone Students, 3 credit hours

Plan of Study: Prerequisites and corequisites for each of the courses identified above must be met as delineated in the course descriptions.

Total Credit Hours Required: 15 or 16, at least 9 of which must be completed at The Citadel.
Civil and Environmental Engineering Course Descriptions

CIVL 101  Engineering Drawing Two Credit Hours
Required of all Civil and Environmental Engineering freshmen.
Use and care of drawing instruments; proper weights and types of lines for
clear-cut and complete graphical representation; auxiliary and sectional views;
pictorial representation with emphasis on isometric drawing, dimensioning, de-
velopment of a reasonable skill in lettering. A substantial portion of the course
is taught using CAD software.
Laboratory: four hours.

CIVL 103  Introduction to Civil Engineering One Credit Hour
Required of all Civil and Environmental Engineering freshmen.
The engineering design process is demonstrated through use of practical
problem-solving methods for public infrastructure and built environment proj-
ects. Course subjects include civil engineering career paths, ethical canons of
the engineering profession, and requirements for professional licensure. Course
assignments, conducted within a collaborative learning environment, focus on
creative engineering solutions through technical analysis, teamwork, commu-
nication skills, and professionalism. As a foundation for sustained success in civil
engineering, additional course topics include: lifelong learning, time management,
community and professional service, and career development.
Laboratory: two hours.

CIVL 202  Statics Three Credit Hours
Corequisites: MATH 131 and PHYS 221/271
Required of all Civil and Environmental Engineering sophomores.
Scalar and vector solutions of problems in statics; resultants, reactions, and
equilibrium of forces; analysis of simple trusses; friction; centroids and centers
of gravity; and moments of inertia.
Lecture: three hours.

CIVL 203  Dynamics Three Credit Hours
Prerequisite: CIVL 202 with a grade of “C” or better.
Required of all Civil and Environmental Engineering juniors.
Kinematics and Kinetics of particles or rigid bodies in plane motion with
emphasis on the special cases of translation and rotation. The techniques of
vector mathematics are employed.
Lecture: three hours.

CIVL 205  Surveying Three Credit Hours
Corequisites: CIVL 101 or CIVL 103 and CIVL 235
Required of all Civil and Environmental Engineering sophomores.
Linear measurements, leveling, compass and transit/theodolite, total stations,
theory of errors, latitudes and departures, areas, stadia, datums, coordinate ge-
ometry, construction field control, legal aspects of land surveying, and public
land surveys.
Lecture: three hours.
CIVL 208  *Geospatial Representation*  Three Credit Hours
Prerequisites: CIVL 205 and CIVL 235, MATH 131 or HONR 131.
Required of all Civil and Environmental Engineering sophomores.
Study of geospatial representation applications, techniques, and methods that includes topographic mapping, map projections, reference datums, state plane coordinate systems, Global Positioning Systems (GPS), Geographic Information Systems (GIS), and remote sensing. 
Lecture: three hours.

CIVL 210  *Computer Application for Civil and Environmental Engineering*  Three Credit Hours
Required of all Civil and Environmental Engineering freshmen.
Instruction in computer applications to problems chosen from civil engineering fields. Development of computer-based methods for analyzing computer engineering systems. The class will address a range of related topics including algorithm development and implementation, professional and ethical aspects of computer applications, development of self-directed learning skills appropriate for civil engineering.
Lecture: three hours.

CIVL 235  *Surveying I Laboratory*  One Credit Hour
Corequisite: CIVL 205
Required of all Civil and Environmental Engineering sophomores.
Application of principles obtained in CIVL 205 through actual field work. Horizontal control activities include distance measurements by tape and EDM, angular measurements by theodolite and total stations, traversing, traverse closure computations, balancing computations, and preparation of boundary plat. Students will be introduced to the use of data collectors as part of their field work. Computer applications and computer-aided drafting are available.
Laboratory: two hours.

CIVL 239  *Geomatics Laboratory*  One Credit Hour
Prerequisite: CIVL 205, CIVL 235; corequisites: CIVL 101 and CIVL 208
Required of all Civil and Environmental Engineering sophomores.
Preparation of a topographic map, Geographic Positioning Systems (GPS) mapping controls, Geographic Information System (GIS) applications, and understanding the geometry and nomenclature of horizontal and vertical curves.
Laboratory: two hours.

CIVL 302  *Highway Engineering*  Three Credit Hours
Prerequisite: CIVL 305; corequisite: CIVL 327
Required of all Civil and Environmental Engineering juniors.
Highway alignment, right-of-way and easements; earthwork and grading; road user benefits, traffic operations and capacity; design of intersections and interchanges; construction surveys; drainage design; highway materials; design of asphalt mixtures; pavement thickness design; and construction management, contracts, estimates and specifications. Preparation of plans and design documentation for a highway project including: horizontal alignment, vertical alignment, roadway cross-sections, storm water drainage, earthwork and mass diagram calculations, and construction materials.
Lecture: three hours.
CIVL 304  *Mechanics of Materials*  Three Credit Hours
Prerequisite: CIVL 202 with a grade of “C” or better.
Required of all Civil and Environmental Engineering juniors.
Elastic properties of structural materials, internal stresses and strains, principal stresses and strains including Mohr’s Circle, axial, torsion, flexure, shear, bolted joints, combined stresses, shear and moment diagrams, beam deflections. Supplemented by CIVL 307.
Lecture: three hours.

CIVL 305  *Transportation Engineering*  Three Credit Hours
Prerequisites: CIVL 101, CIVL 103, CIVL 208, CIVL 239
Required of all Civil and Environmental Engineering juniors.
A study of technical, multimodal, and organizational interrelationships of United States transportation mobility systems focusing on policy, planning, capacity, operation, and design of land transportation, airport and seaport facilities. Topics include highway design, roadway safety, traffic engineering, travel forecasting, railroad alignment, public mass transit, airport layout, and harbors/ports.
Lecture: three hours.

CIVL 307  *Materials Laboratory*  One Credit Hour
Prerequisites or corequisites: CIVL 210, CIVL 304.
Required of all Civil and Environmental Engineering juniors.
Laboratory supplement to CIVL 304. Introduction to the use of testing machines and equipment; strength and deformation measurements of ferrous and non-ferrous metals, concrete, and wood; properties of materials as determined by results of tests in compression, tension, bending, torsion; behavior of columns; use of electric resistance strain gages; use of ASTM specifications and test procedures. Taken concurrently with or subsequent to CIVL 304.
Laboratory: two hours.

CIVL 309  *Structural Analysis*  Four Credit Hours
Prerequisites: CIVL 304 with a grade of “C” or better and MATH 132
Required of all Civil and Environmental Engineering juniors.
Structural analysis of determinate and indeterminate beams and frames using classical, approximate and computer-based methods.
Lecture: four hours.

CIVL 310  *Statics and Mechanics of Materials for Non-Civil Engineers*  Three Credit Hours
Prerequisites: MATH 132 and PHYS 221/271
Vector solutions of problems in statics; principles of statics, resultants, reactions, and equilibrium of forces. In addition, the brief study of mechanics of materials including stress and strain relationships and various types of loading on structural members.
Lecture: three hours.
CIVL 314  Engineering Economy  Two Credit Hours
Required of all Civil and Environmental Engineering juniors.
Topics include the time value of money, equivalence, simple and compound interest, nominal and effective interest rates, present worth and capitalized cost evaluation, equivalent uniform annual worth evaluation, rate of return evaluation, benefit/cost ratio evaluation, depreciation, corporate and individual income tax, after-tax economic analysis, and engineering ethics as applied by practicing engineers.
Lecture: two hours.

CIVL 320  Fluid Mechanics  Three Credit Hours
Required of all Civil and Environmental Engineering juniors.
Prerequisite: CIVL 202 with a grade of “C” or better
Prerequisites: Either MATH 231 or MATH 234.
Corequisites: CIVL 418
An introduction to fluid characteristics, properties, and the fundamentals of fluid statics, fluid dynamics, fluid flow, and fluid measurements. Hydraulic principles including pressurized pipe flow and open channels are also covered. Classroom assignments include design problems and problem solving.
Lecture: three hours.

CIVL 321  Hydrology and Hydraulics  Three Credit Hours
Prerequisite: CIVL 320
Required of all Civil and Environmental Engineering juniors.
This course focuses on presentation and application of fundamental hydraulic and hydrology principles including hydrologic cycle; hydrograph development; flood routing; design of storm water systems and water distribution systems, pipe networks, pumping systems, flow through orifices, flumes and weirs; and design of hydraulic structures.
Lecture: three hours.

CIVL 322  Introduction to Environmental Engineering  Three Credit Hours
Prerequisites: CIVL 320, CHEM 151, CHEM 161, BIOL 150, BIOL 151, and either MATH 231 or MATH 234.
Corequisite: CIVL 419
Introduction to water, air, solid and hazardous waste. Included are social and ethical considerations, legal and regulatory principles, risk analysis, the effect of pollutants in the environment, groundwater flow theory and application, and the engineering principles governing the generation and control of these pollutants.
Lecture: three hours.
CIVL 327  *Asphalt and Concrete Laboratory*  One Credit Hour
Prerequisite: CIVL 307; corequisite CIVL 302.
Required of all Civil and Environmental Engineering juniors.
Laboratory applications involving design, preparation, curing and testing of asphalt and Portland cement concrete. Includes testing for component properties, component selection and grading, material handling, mix design, blending, applicable standards and specifications, construction practices, quality control, specimen testing and safety. Marshall and Superpave mix design procedures and testing methods are used to conduct laboratory data collection and analysis. Emphasis is placed on professional laboratory report preparation.
Laboratory: two hours.

CIVL 331  *Probability and Statistics for Civil and Construction Engineering*  Three Credit Hour
Prerequisite: CIVL 210, minimum sophomore standing, or approval of Dept. Head.
This course introduces engineering students to concepts and techniques necessary to organize and analyze technical data. Descriptive statistical measures and probability theory are combined to provide the basis for statistical decision-making techniques applicable to the practice of civil and construction engineering. Topics include data collection and presentation, measures of central tendency; measures of variability; basic probability laws and distributions; sampling theory, confidence intervals, hypothesis testing, analysis of variance, regression analysis, and process control.

CIVL 402  *Geotechnical Engineering Laboratory*  One Credit Hour
Corequisite: CIVL 409
Required of all Civil and Environmental Engineering seniors.
Field and laboratory applications of typical methods for determining engineering properties of cohesive and granular soils. Experimental topics include specific gravity, particle size distribution, clay soil consistency, engineering classification, permeability, compaction, consolidation, in situ soil properties, soil boring and sampling techniques, and shear strength parameter determination using unconfined direct, triaxial, vane shear and penetration apparatus.
Laboratory: two hours.

CIVL 404  *Reinforced Concrete Design*  Three Credit Hours
Prerequisites: CIVL 309
Required of all Civil and Environmental Engineering seniors.
Design of reinforced concrete structures using strength design theory. Design of beams, columns, combined stress members, footings, and retaining walls. Comprehensive analysis and design of a building frame and foundation system are included. Special attention is given to the use of current specifications for design and construction. The use of computer programs to facilitate analysis and design during the comprehensive problem is encouraged.
Lecture: three hours.
### CIVL 406  Steel Design  
**Prerequisite:** CIVL 309  
Three Credit Hours  
- Required of all Civil and Environmental Engineering seniors.  
- Theory and design of steel structures using the load and resistance factor design method. Design of tension and compression members, beams and columns. Computer solutions are utilized for design shears, moments, and axial loads.  
- Lecture: three hours.

### CIVL 408  Water and Wastewater Systems  
**Prerequisites:** CIVL 322, CHEM 152/162, MATH 231, and MATH 234  
Three Credit Hours  
- Required of all Civil and Environmental Engineering seniors.  
- Introduction to engineering design principles and practices including water use, quality standards for drinking water, water treatment systems, determining the quantity of wastewater, design of sanitary sewers, quality criteria for surface waters, and wastewater treatment systems.  
- Lecture: three hours.

### CIVL 409  Introduction to Geotechnical Engineering  
**Prerequisites:** CIVL 304 (with a grade of “C” or better), CIVL 322, MATH 231, and MATH 234  
Three Credit Hours  
- Required of all Civil and Environmental Engineering seniors.  
- Introduces the student to the rudiments of theoretical soil mechanics. Topics include engineering uses of soils; laboratory and field determination of soil properties; determination of phase relationships; engineering soil classification; soil-water interaction and seepage flow mechanics; stress effects of loading on soils at depth; and consolidation, compaction, shear strength, and bearing capacity theory.  
- Lecture: three hours.

### CIVL 410  Geotechnical Engineering II  
**Prerequisite:** CIVL 409  
Three Credit Hours  
- An introductory course in geotechnical analysis and design. Topics include shallow foundations, spread footings, deep foundations, piles and caissons, lateral earth pressure for cohesive and cohesionless soils, slope stability analysis, subsurface investigations and special topics including such subjects as soil stabilization methods, geotextile applications, liquefaction, etc.  
- Lecture: three hours.

### CIVL 411  Engineering Management  
**Prerequisite:** Completion of all freshman and sophomore courses, or approval of the department head.  
Three Credit Hours  
- Application of management skills, methods, and techniques used to effectively perform engineering, design, and construction projects. Course topics include project scheduling, contract documents, multidisciplinary teams, public administration, communication, public policy, ethical responsibility, life long learning skills, and engineering leadership. Emphasis is placed on professional relationships between government agencies, owners, engineers, and contractors to achieve project requirements and produce engineering deliverables.  
- Lecture: three hours.
CIVL 412  *Engineering Practice and Professional Licensure*  One Credit Hour

Prerequisite: Senior standing in civil and environmental engineering or construction engineering

Required of all Civil and Environmental Engineering and Construction Engineering seniors. This class provides a review for the NCEES Fundamentals of Engineering Computer Based Exam.

CIVL 418  *Fluid Mechanics Laboratory*  One Credit Hour

Corequisite: CIVL 320

Required of all Civil and Environmental Engineering seniors.

Accomplishments of laboratory exercises and experiments to illustrate basic concepts of fluid mechanics and to validate empirical formulas used in hydraulic computations. Principal emphasis is on the phenomena associated with closed conduit and open channel flow of water, measurement of velocities and flow rates, and operational characteristics of pumps. A minimum of one experiment will involve the use of the computers to evaluate laboratory data.

Laboratory: two hours.

CIVL 419  *Environmental Engineering Laboratory*  One Credit Hour

Corequisite: CIVL 322

Required of all Civil and Environmental Engineering seniors.

Accomplishment of chemical, physical, and microbiological determinations used in the examination of water and wastewater. Laboratory analysis to evaluate water quality will be performed, such as biochemical oxygen demand, suspended solids, pH, alkalinity, and others. A minimum of one laboratory experiment will involve the use of the computer to evaluate laboratory data.

Laboratory: two hours.

Civil and Environmental Engineering Design Electives

Each Civil and Environmental Engineering major must complete a two-semester capstone design experience. The capstone sequence provides students an opportunity to:

- function with intra-disciplinary teams
- identify, formulate, and solve realistic engineering problems where economic, environmental, and sustainability, and manufacturability are considered
- understand professional and ethical responsibilities
- communicate effectively
- understand the political, global, and social impacts of engineering solutions
- understand the regulatory review process
CIVL 432  Civil Engineering Design  Three Credit Hours
   Capstone I  Each Semester
Prerequisite: Senior standing in civil and environmental engineering.
Corequisites: CIVL 404, CIVL 408, CIVL 410, CIVL 411
Ethical canons of the engineering profession require civil engineering graduates to be well-rounded effective leaders in planning, design, and construction of public infrastructure and the built environment projects needed to establish safe, healthy, equitable, and vibrant communities. Students apply civil engineering principles to determine appropriate design solutions for a comprehensive engineering problem, using applicable analytical methods of professional practice, to address intradisciplinary projects in civil engineering incorporating structural, environmental, geotechnical, and/or transportation components.

CIVL 433  Civil Engineering Design  Three Credit Hours
   Capstone II  Each Semester
Prerequisite: CIVL 432
Ethical canons of the engineering profession require civil engineering graduates to be well-rounded effective leaders in planning, design, and construction of public infrastructure and the built environment projects needed to establish safe, healthy, equitable, and vibrant communities. Students apply civil engineering principles to determine appropriate design solutions for a comprehensive engineering problem, using applicable analytical methods of professional practice, to address intradisciplinary projects in civil engineering incorporating structural, environmental, geotechnical, and/or transportation components.

CIVL 450  Civil and Environmental Engineering  Three Credit Hours
   Internship
Prerequisite: Permission of Department Head
This course gives Civil and Environmental Engineering students real-world work experience to complement the classroom education that they have previously received. Interns will learn about the variety of issues facing today’s practicing engineer. Interns will spend at least five hours each week working alongside senior-level managers in Charleston area engineering firms or engineering related regulatory agencies coordinating these activities through the Department of Civil and Environmental Engineering.

CIVL 453  Special Topics in Civil Engineering  Variable (1-3 Credit Hours)
Prerequisite: Permission of Department Head
Selected topics in civil engineering. The offering of this course will depend upon the interest of the student, the availability of an instructor, and the approval of the department head. Since the content of this course may change, a student may repeat the course for credit with the consent of the department head.
Construction Engineering Course Descriptions

CONE 302  \textit{Engineering/Construction Law, Ethics, Safety, and Contracts}  
Four Credit Hours

Introduction to basic contract and tort issues and their application in the construction industry; delineation of the various types of contracts and remedies available to parties involved in a construction project; additional related topics including bidding, delays, mechanics liens, site conditions, warranties and the Uniform Commercial Code as it relates to the construction industry. Examine the application of OSHA 29CFR 1926 for the construction industry along with applicable state and federal construction safety laws pertaining to construction, alterations, or repair work at construction site.

CONE 311  \textit{Resource Estimating}  
Three Credit Hours

Systems approach to determining required quantities of construction materials; quantification of various types of foundation systems, structural systems and building envelope systems using excerpts of contract documents from a variety of different building projects.

CONE 312  \textit{Advanced Estimating}  
Prerequisite: CONE 311  
Three Credit Hours

Quantification and pricing of direct field costs and general condition costs from construction documents; the preparation of complete lump sum bid package ready for project execution; utilization of entire set of required contract documents.

CONE 320  \textit{Engineering Materials and Methods (\& Lab)}  
Prerequisite: CHEM 151  
Corequisite: CIVL 304  
Three Credit Hours

Materials, methods and sequences of the construction process; emphasis on design, specification, purchase and use of concrete, steel, masonry and timber. An understanding of the uses of construction materials.

CONE 330  \textit{Quality Management and Labor Relations}  
Three Credit Hours

Identify, explain and apply quality management techniques for construction engineering services, construction projects, and related deliverables through use of continuous improvement procedures, analytical tools and techniques focusing on resource allocation, workforce requirements, performance schedule, quality control, and total quality systems. Best practice principles in labor relations and management will be reviewed and evaluated including labor relations law, construction contracts, incentives and penalties, construction agreements and partnerships, collective bargaining, and unionized/nonunionized construction workforce considerations.

CONE 340  \textit{Structural Analysis and Design}  
Prerequisite: CIVL 304 and MSTH 132  
Three Credit Hours

Application of statics and strength of materials for construction of steel buildings, reinforced concrete structures, reinforced masonry structures, and timber structures with computer analysis and design of specific topics.
CONE 350  
*Commercial Construction and Engineering Equipment*  
Three Credit Hours  
Corequisite: N/A  
Prepare students to enter the commercial construction sector through consideration of design, bidding/estimating, value engineering, contracts/negotiation, subcontractor relations, cost controls, management during construction, close out, post-construction requirements and the engineering equipment used during horizontal and vertical construction.

CONE 360  
*Soils and Foundations (& Lab)*  
Three Credit Hours  
Prerequisite: CIVL 304  
Introduction to soil types found on construction projects; testing, properties and classification of soil; embankment control, dewatering, excavation, foundations, piers, and pilings.

CONE 410  
*Project Scheduling*  
Three Credit Hours  
Prerequisite: CONE 311  
An introduction to construction project scheduling covering concepts of project selection and scheduling, utilizing the estimate to predict the schedule, scheduling subcontracting, cost controls, project documentation, construction bonds, insurance, payments and the elements of close out.

CONE 412  
*Engineering Practice and Professional Licensure for Construction Engineers*  
Three Credit Hours  
Prerequisite: Senior standing in construction engineering.  
Required of all Construction Engineering seniors. This class provides a review for the NCEES Fundamentals of Engineering Computer Based Exam.

CONE 415  
*Project Management and Engineering Administration*  
Three Credit Hours  
Prerequisite: N/A  
Project planning, cost controls, and construction related financial documents including: schedule of values, labor and operations cost reports, income statements, balance sheets and construction budgets; emphasis on the development of techniques required to ethically and effectively monitor the financial aspects of a construction project and manage engineering projects.

CONE 440  
*Construction Methods and Temporary Structural Design*  
Three Credit Hours  
Prerequisite: CONE 340  
Common construction methods are introduced and building details are explored considering material applications and detailing in structural and non-structural building components and physical processes lying behind the design of a building’s envelope and interior. A set of prints and specifications will structure our discussion of the building process. Study of the materials, methods and techniques associated with temporary structures utilized in various construction operations, such as concrete formwork, scaffolding, falsework/shoring, cofferdams, underpinning, diaphragm/slurry walls, earth-retaining structures and construction dewatering systems.
CONE 450  *Facilities Operations and Maintenance (BIM)*  Three Credit Hours

Prerequisite: ACCT 201

Each facility has distinct operations, maintenance and capital project delivery needs. Leaders must leverage facility data created throughout the design and construction process and lifecycle to provide safe, healthy, effective and efficient work environments for their clients. The maintenance of this data will create greater efficiencies such as: having accurate as-built information to reduce the cost & time required for renovations; increasing customer satisfaction; and optimizing the operation and maintenance of our building systems to reduce energy usage. Building Information Modelling (BIM) is about ensuring teams have the relevant knowledge and capabilities to achieve best practice and effectively manage information across all stages of your construction projects.

CONE 460  *Mechanical and Electrical Systems*  Three Credit Hours

Prerequisites: PHYS 221/PHYS 271

Mechanical and electrical systems with a major emphasis on the estimate and installation, design and control of the electrical, heating, ventilation and cooling system, site planning and acoustical treatments.

CONE 470  *Production Processes and Rapid Development: Practicum in Construction Engineering*  Three Credit Hours

Prerequisite: CONE 311, Junior or Senior Standing, or approval of Department head.

Corequisite: CONE 415

Course is focused on developing field engineering skills through practical, community-based projects. Skills augment theoretical knowledge gained in the classroom, provide students with an opportunity to practice communications and project reporting to various stakeholders, and increase student's employability in today's competitive workforce by providing real world construction site field experience. Students are required to provide written project documents and verbally present project reports to professor and peers. Professional verbal and written communication proficiencies are emphasized throughout the course as these professional skills serve to distinguish program graduates.

CONE 481  *Construction Engineering Design Capstone I*  Three Credit Hours

This course is the first in the Construction Engineering Capstone series and provides project definition, project planning, scheduling, and results in development of a feasible plan and presentation for a 35% complete major construction project, for selected or assigned project.

CONE 482  *Construction Engineering Design*  Three Credit Hours

Prerequisite: CONE 481

This course is the second in the Construction Engineering Design Capstone series that requires 3D modeling, quantity estimating, scheduling, risk analysis, preparation of project construction deliverables, and presentation of results for a major infrastructure or private development construction project as assigned, or approved, addressing design-build requirements. Use information from all previous courses to prepare construction engineering documents for a given project. Respond to project solicitations, Request for Proposal (RFP) announcements, or bid, and project addendums.
## CIVIL ENGINEERING MAJOR
### First Semester

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<th>Course</th>
<th>Code</th>
<th>Credits</th>
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<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
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<td>Freshman Seminar</td>
<td>FSEM 101</td>
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<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
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<td>Analytic Geometry and Calculus I</td>
<td>MATH 131</td>
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<tr>
<td>General Biology for Engineers</td>
<td>BIOL 150</td>
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<td>General Biology for Engineers Laboratory</td>
<td>BIOL 151</td>
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<tr>
<td>Introduction to Civil Engineering</td>
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### SOPHOMORE YEAR

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<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
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<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0 (0,1)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
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<td>Strand History</td>
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<td>Analytic Geometry and Calculus III</td>
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<td>General Chemistry I</td>
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<td>General Chemistry I Laboratory</td>
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<td>Surveying</td>
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### JUNIOR YEAR

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<td>Dynamics</td>
<td>CIVL 203</td>
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<tr>
<td>Mechanics of Materials</td>
<td>CIVL 304</td>
<td>3 (3,0)</td>
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<tr>
<td>Materials Laboratory</td>
<td>CIVL 307</td>
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<tr>
<td>Transportation Engineering</td>
<td>CIVL 305</td>
<td>3 (3,0)</td>
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<tr>
<td>Fluid Mechanics</td>
<td>CIVL 320</td>
<td>3 (3,0)</td>
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<tr>
<td>Engineering Management</td>
<td>CIVL 411</td>
<td>3 (3,0)</td>
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<tr>
<td>Fluid Mechanics Laboratory</td>
<td>CIVL 418</td>
<td>1 (0,2)</td>
</tr>
<tr>
<td>Engineering Economy</td>
<td>CIVL 314</td>
<td>2 (2,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED</td>
<td>0 (0,1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Probability and Statistics for Civil and Construction Engineering</td>
<td>CIVL 331</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Reinforced Concrete Design</td>
<td>CIVL 404</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Introduction to Geotechnical Engineering</td>
<td>CIVL 409</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Geotechnical Laboratory</td>
<td>CIVL 402</td>
<td>1 (0,2)</td>
</tr>
<tr>
<td>Water and Wastewater Systems</td>
<td>CIVL 408</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Engineering Practice and Professional Licensure for Civil Engineers</td>
<td>CIVL 412</td>
<td>1 (0,1)</td>
</tr>
<tr>
<td>Civil Engineering Capstone I</td>
<td>CIVL 432</td>
<td>3 (3,1)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
# CIVIL ENGINEERING MAJOR

## FRESHMAN YEAR

### Second Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics with Calculus I</td>
<td>PHYS 221</td>
<td>3</td>
</tr>
<tr>
<td>Physics with Calculus I Laboratory</td>
<td>PHYS 271</td>
<td>1</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>R PED 260</td>
<td>3</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH 132</td>
<td>4</td>
</tr>
<tr>
<td>Computer Application for Civil and Environmental</td>
<td>CIVL 210</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Drawing</td>
<td>CIVL 101</td>
<td>2</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM 260</td>
<td>3</td>
</tr>
<tr>
<td>Statics</td>
<td>CIVL 202</td>
<td>3</td>
</tr>
<tr>
<td>Applied Engineering Mathematics I</td>
<td>MATH 234</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>CHEM 152</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry II Laboratory</td>
<td>CHEM 162</td>
<td>1</td>
</tr>
<tr>
<td>Geospatial Representation</td>
<td>CIVL 208</td>
<td>3</td>
</tr>
<tr>
<td>Geomatics Laboratory</td>
<td>CIVL 239</td>
<td>1</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
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<td></td>
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## JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
</tr>
<tr>
<td>Structural Analysis</td>
<td>CIVL 309</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Environmental Engineering</td>
<td>CIVL 322</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Engineering Laboratory</td>
<td>CIVL 419</td>
<td>1</td>
</tr>
<tr>
<td>Highway Engineering</td>
<td>CIVL 302</td>
<td>3</td>
</tr>
<tr>
<td>Asphalt and Concrete Laboratory</td>
<td>CIVL 327</td>
<td>1</td>
</tr>
<tr>
<td>Hydrology and Hydraulics</td>
<td>CIVL 321</td>
<td>3</td>
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<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
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## SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3</td>
</tr>
<tr>
<td>Steel Design</td>
<td>CIVL 406</td>
<td>3</td>
</tr>
<tr>
<td>Geotechnical Engineering II</td>
<td>CIVL 410</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering Capstone II</td>
<td>CIVL 433</td>
<td>3</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REQUIRED FOR GRADUATION: 138 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# CONSTRUCTION ENGINEERING MAJOR

## First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2.0)*</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH 131</td>
<td>4 (4.0)</td>
</tr>
<tr>
<td>General Biology for Engineers</td>
<td>BIOL 150</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>General Biology for Engineers Laboratory</td>
<td>BIOL 151</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>Introduction to Civil Engineering</td>
<td>CIVL 103</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>1 (1.0)</td>
</tr>
</tbody>
</table>

## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1 (1.0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>+Approved Math or Science Elective</td>
<td></td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td>CHEM 151</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>General Chemistry I Laboratory</td>
<td>CHEM 161</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>Surveying</td>
<td>CIVL 205</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Surveying Laboratory</td>
<td>CIVL 235</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td>2 (2.0)</td>
</tr>
</tbody>
</table>

## JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1.0)</td>
</tr>
<tr>
<td>Engineering Construction Law, Ethics</td>
<td>CONE 302</td>
<td>4 (4.0)</td>
</tr>
<tr>
<td>Mechanics of Materials</td>
<td>CIVL 304</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Engineering Economy</td>
<td>CIVL 314</td>
<td>2 (2.0)</td>
</tr>
<tr>
<td>Probability and Statistics for Civil and</td>
<td>CIVL 331</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Construction Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engr Materials &amp; Methods with Lab</td>
<td>CONE 320</td>
<td>3 (3.1)</td>
</tr>
<tr>
<td>Project Management and Engr Admin</td>
<td>CONE 415</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED</td>
<td>0 (0.1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1.0)</td>
</tr>
<tr>
<td>Advanced Estimating</td>
<td>CONE 312</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Quality Management and Labor Relations</td>
<td>CONE 330</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Project Scheduling</td>
<td>CONE 410</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Constr. Methods &amp; Temp Str. Design</td>
<td>CONE 440</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Engineering Practice and Professional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licensure for Construction Engineers</td>
<td>CONE 412</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>Construction Engineering Design Capstone I</td>
<td>CONE 481</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Engineering Practice and Professional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licensure for Construction Engineers</td>
<td>CIVL 412</td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
+ Approved math or science course electives include: PHYS 243, ASTR 201, MATH 206, MATH 240, STAT 261, MATH 231, MATH 234, or as approved by Dept. Head
## CONSTRUCTION ENGINEERING MAJOR

### FRESHMAN YEAR

**Second Semester**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics with Calculus I</td>
<td>PHYS 221</td>
<td>3</td>
</tr>
<tr>
<td>Physics with Calculus I Laboratory</td>
<td>PHYS 271</td>
<td>1</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH 132</td>
<td>4</td>
</tr>
<tr>
<td>Computer Application for Civil and</td>
<td>CIVL 210</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Drawing</td>
<td>CIVL 101</td>
<td>2</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM 260</td>
<td>3</td>
</tr>
<tr>
<td>Statics</td>
<td>CIVL 202</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>CHEM 152</td>
<td>3</td>
</tr>
<tr>
<td>General Chemistry II Laboratory</td>
<td>CHEM 162</td>
<td>1</td>
</tr>
<tr>
<td>Geospatial Representation</td>
<td>CIVL 208</td>
<td>3</td>
</tr>
<tr>
<td>Geomatics Laboratory</td>
<td>CIVL 239</td>
<td>1</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 102</td>
<td>1</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Resource Estimating</td>
<td>CONE 311</td>
<td>3</td>
</tr>
<tr>
<td>Structural Analysis and Design</td>
<td>CONE 340</td>
<td>3</td>
</tr>
<tr>
<td>Commercial Const./Engr. Equip</td>
<td>CONE 350</td>
<td>3</td>
</tr>
<tr>
<td>Soils and Foundations</td>
<td>CONE 360</td>
<td>3</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3</td>
</tr>
<tr>
<td>Facilities Op. and Maintenance (BIM)</td>
<td>CONE 450</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical and Electrical Systems</td>
<td>CONE 460</td>
<td>3</td>
</tr>
<tr>
<td>Prod. Processes/Rapid Development</td>
<td>CONE 470</td>
<td>3</td>
</tr>
<tr>
<td>Construction Engineering Design Capstone II</td>
<td>CONE 482</td>
<td>3</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

**REQUIRED FOR GRADUATION:** 135 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Electrical and Computer Engineering

Department Head: Barsanti
Professors: Barsanti, Hayne, McKinney, Peeples, Potisuk
Associate Professor: Mazzaro
Assistant Professor: Integlia

General Information

In 1941 the Board of Visitors authorized the establishment of a Department of Electrical Engineering at The Citadel. Because World War II intervened, the first electrical engineering degrees were awarded to the class of 1948. The electrical engineering program is offered in two modes—day mode and the 2+2 evening mode. The day mode is open only to members of the South Carolina Corps of Cadets, military veterans, and enlisted active duty students assigned to one of The Citadel’s ROTC Departments. All cadets must take one ROTC course each of their first four semesters, two credit hours of Leadership Training, four hours (three hours beginning in 2019) of Health and Physical Education courses, and 2 non-credit Physical Education courses. Further, all military contracted cadets continue to take ROTC course for their last four semesters. The 2+2 evening mode is open to transfer students and does not require ROTC or Health and Physical Education. Otherwise curricula, faculty, textbooks, laboratory equipment, course content, classrooms, and laboratory rooms are the same for both modes.

The Electrical and Computer Engineering Department is located on the third floor of Grimsley Hall, a first-tier engineering education facility that provides fully-equipped laboratories, classrooms and faculty offices. The related Departments of Mathematics and Computer Science, Physics, and Civil and Mechanical Engineering are housed adjacent to the department, creating a “micro-campus” of science and technology.

The student branch of the Institute of Electrical and Electronics Engineers was established in 1962 and is an active component of the electrical engineering program. A Citadel chapter of Tau Beta Pi, the national engineering honor society, recognizes junior and senior students who meet the organization’s high academic standards.

The bachelor of science electrical engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), http://www.abet.org.

Mission

The mission of the Department of Electrical and Computer Engineering is to prepare the individual for professional work or for graduate study in the fields of electrical and computer engineering and to provide as many of the elements of a broad education as can be included in a program of professional study leading to the degree of Bachelor of Science in Electrical Engineering.

In addressing its mission, the department strives, through small classes and
hands-on experience in laboratories closely monitored by full-time faculty, to provide an environment highly conducive both to learning and to the development of close student-faculty relationships.

The electrical engineering curriculum places emphasis on a broad liberal education base, a strong background in mathematics and basic sciences, and a logical sequence of electrical and computer engineering courses that provide the breadth and depth necessary for continuous professional growth in today’s technological society. In the junior year the electrical engineering student normally selects an area of professional emphasis such as computer engineering, control systems, communication systems, electronics, or power systems. An integral part of the program is the design component that develops the student’s ability to address practical engineering problems. This is accomplished by the inclusion of engineering design problems and concepts throughout the curriculum and capped by a mandatory two-semester senior design course in which students undertake significant design projects.

Convinced of the great value of practical experience, the department encourages its majors to obtain gainful employment in electrical engineering or a related field for at least one summer, preferably between the junior and senior years.

**Program Educational Objectives**

The Citadel Department of Electrical and Computer Engineering program prepares graduates to:

- Succeed in the practice of electrical engineering, by ethically and judiciously applying engineering methods to solve problems facing a technologically complex society.
- Develop and apply current hardware and software tools, equipment, and development environments to conduct and/or lead engineering design and assessment.
- Value and pursue lifelong learning through postgraduate education, professional registration, or employment, to keep current in engineering fields, and to sustain awareness of engineering related issues.
- Be principled leaders with strong communications and team-building skills.

**Student Outcomes**

The Citadel’s Electrical Engineering program includes assessment to demonstrate that students obtain:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals,
plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Electrical Engineering Curriculum

The electrical engineering educational experience begins in the freshman engineering fundamentals course, ELEC 106. This freshman course develops basic skills and good teamwork habits through team case studies requiring the communication of creative ideas. The second semester freshman curriculum includes 3 credit hours of computer applications for electrical engineers. The study of electrical engineering topics in the sophomore year includes 6 credit hours of electric circuit analysis, 3 credit hours of digital logic and circuits, 3 credit hours of digital systems, and 1 credit hour of electrical laboratory. Theory is combined with application, demonstration, and experimental verification. In addition the first two years include 16 credit hours of mathematics, 8 credit hours of chemistry and/or biology, 8 credit hours of physics, and general education core courses to provide the foundation necessary for an engineering education.

The junior year requires a total of 17 credit hours of electrical engineering course work. Breadth of coverage is provided by courses in signals and systems analysis, electronics, systems (automatic controls), digital circuits and systems, electromagnetics, and electromechanical energy conversion. Many of these courses include engineering design problems drawn from the experience of the faculty. First semester juniors complete their fifth mathematics course, MATH 335 (Applied Mathematics II), which provides coverage of mathematical topics required in upper division electrical engineering courses. There is a single junior year elective course that must be technical in nature and outside the mainstream of electrical engineering.

All undergraduate courses taken at The Citadel with a subject prefix of ELEC will count towards the major GPA.

The senior year provides depth in electrical and computer engineering by requiring five out of an available seventeen 400-level electrical engineering elective courses taught and at least one approved Computer Science elective. The elective courses are ELEC 307 (Nuclear Engineering), ELEC 401 (Electronics II), ELEC 403 (Electric Power Systems), ELEC 405 (Electrical Measurements), ELEC 407 (Systems II), ELEC 413 (Advanced Topics in Electrical Engineering), ELEC 414 (System Simulation), ELEC 416 (Communications Engineering), ELEC 418 (Advanced Digital Systems), ELEC 419 (Computer Network Architecture), ELEC 423 (Digital Signal Processing), ELEC 424 (Solid-State Devices), ELEC 425 (Interference Control in Electronics), ELEC 426 (Antennas and Propagation), ELEC 427 (Energy Systems Engineering), ELEC 428 (Computer Architecture), ELEC 430 (Independent Research in Electrical Engineering), ELEC 450 (Electrical Engineering Internship), and CSCI 420 (Software Engineering). These electives provide the student the opportunity to pursue an area of interest. While narrow specialization is neither possible nor desirable at the undergraduate level, these three-credit electives provide depth in both design and theory in their specialized areas. Below are several examples of possible areas of concentration available to the student.
Computer Engineering
CSCI 223  Data Structures (Prerequisites: CSCI 201, 202 and MATH 206)
CSCI 420  Software Engineering
ELEC 405  Electrical Measurements
ELEC 418  Advanced Digital Systems
ELEC 419  Computer Network Architecture
ELEC 423  Digital Signal Processing
ELEC 428  Computer Architecture

Power Engineering
CIVL 310  Statics and Mechanics of Materials for Non-Civil Engineers
ELEC 307  Nuclear Engineering
ELEC 403  Electric Power Systems
ELEC 407  Systems II
ELEC 405  Electrical Measurements
ELEC 426  Antennas and Propagation
ELEC 427  Energy Systems Engineering

Communications
PHYS 308  Optics
ELEC 401  Electronics II
ELEC 416  Communication Engineering
ELEC 419  Computer Network Architecture
ELEC 423  Digital Signal Processing
ELEC 426  Antennas and Propagation

Electronics
PHYS 410  Thermodynamics
ELEC 401  Electronics II
ELEC 418  Advanced Digital Systems
ELEC 423  Digital Signal Processing
ELEC 424  Solid State Devices
ELEC 405  Electrical Measurements

**Electrical Engineering Design Experience**

Engineering design is distributed throughout the electrical engineering curriculum. Introduction to the design process and the initial design experience occurs in the freshman course, ELEC 106. The engineering profession and the ethical responsibilities of professional engineers are discussed. Design problems are posed that require little or no in-depth engineering knowledge. For example, a first problem might ask the student to design a dormitory room workplace. Functionality, aesthetics, and cost of implementation are a few of the issues to be considered. Case studies are assigned that provide an opportunity for the students to work in teams. The emphasis is on the synthesis of a product that meets broad requirements. The students are introduced to the concept of design in which there is no single right answer and relatively few limits placed on the creative process.

Techniques of analysis, synthesis, iteration, and approximations are studied in the sophomore and junior electrical engineering courses. Specialized design exercises illustrate the use of these techniques in the areas of circuits, systems, electronics, electromagnetics, and digital systems.
The senior year provides the opportunity for the student to begin to focus on design techniques in a particular area of interest through the choice of five senior electrical engineering elective courses. Examples range from the use of a load flow program to determine operational conditions of a small power system in a contingency situation (ELEC 403), to the design of a state estimator (ELEC 407), to the design and implementation of digital filters (ELEC 423).

The design experience culminates in the required senior design courses, ELEC 421 and ELEC 422. This two-semester design sequence provides students the opportunity to work on a project of interest and provides the faculty the opportunity to guide students in their first major design experiences and emphasize once more the various constraints that may come into play in a design. The students are taught several different structured design approaches. Project definition and documentation are stressed. Design teams of three to four students are formed at the beginning of the first semester. Students are instructed on various practical aspects of design, such as layout considerations, safety, functionality, and documentation of design. The student design teams select or propose a major design project to be completed by the end of second semester. They must enlist a faculty advisor to guide their project. At the end of the first semester the design teams present their design proposals (written and oral) that include their preliminary design (block diagram level), a schedule for the following semester, and a cost estimate. In the second semester, the teams do the detailed design and build, test, refine, demonstrate, and document their design projects. In addition to the technical aspects, project management and presentation techniques are taught and applied. A detailed project specification is developed and placed under tight change control. Financial and scheduling aspects of the project are tracked. A final presentation in both written and oral form is required at the end of the semester, along with a working demonstration.

Minor in Electrical Engineering

Objectives: The minor in electrical engineering is designed to allow the student with quantitative and scientific aptitudes and interests to acquire a basic level of competence in one of two fields of electrical engineering.

Structure of the Minor:

1. **Required Courses: (7 credit hours)**
   - ELEC 201 & 202 Electric Circuit Analysis I & II
   - ELEC 204 Electrical Laboratory I

2. **Elective Fields of Emphasis:**
   a. **Digital Electronics: (10 credit hours)**
      - ELEC 306 Electronics I
      - ELEC 313 Electronics Laboratory
      - ELEC 311 Digital Logic and Circuits
      - ELEC 330 Digital Systems Engineering
   
   OR

   b. **Control Systems: (12 credit hours)**
      - ELEC 206 Computer Applications for Electrical Engineers
      - ELEC 309 Signals and Systems
3. **Plan of Study:**
Prerequisites and corequisites for each of the above courses are as presented in the course descriptions below. (Exception: ELEC 106 is waived as a course prerequisite for the student pursuing a minor in electrical engineering.)

*Total Credit Hours Required:*  
- 17 (Digital Electronics Track)  
- 19 (Control Systems Track)

*A total of 9 credit hours must be completed at The Citadel.*

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**Minor in Computer Engineering**

**Objective:**
The minor in Computer Engineering is designed to allow the student with quantitative and scientific aptitudes and interests to acquire a basic level of competence in computer engineering.

**Competencies, Knowledge, or Skills to be Achieved:**
A student who completes this minor will have the opportunity to develop a strong foundational background in computer engineering, apply basic engineering principles, stimulate creative thinking, and develop problem solving skills. Coursework can assist students in meeting prerequisites for graduate study in computer engineering or related field.

All undergraduate courses taken at The Citadel with a subject prefix of CSCI and ELEC will count towards the major GPA.

**Structure of the Minor:**

1. **Required Courses:** (9 credit hours)
   - ELEC 206  Computer Applications for Electrical Engineers*
   - ELEC 311  Digital Logic and Circuits
   - ELEC 330  Digital Systems Engineering

2. **Elective Fields of Emphasis (choose two):** (6 credit hours)
   - ELEC 405  Electrical Measurements
   - ELEC 418  Advanced Digital Systems
   - ELEC 419  Computer Network Architecture
   - ELEC 423  Digital Signal Processing
   - ELEC 428  Computer Architecture

*Another 3 credit hour programming course such as CSCI 201 may be substituted with department head approval.

Prerequisites courses ELEC 106 and ELEC 313 are waived for computer engineering minor students.

**Total Credit Hours Required:** 15, at least 9 of which must be completed at The Citadel.
Electrical Engineering Course Descriptions

ELEC 106  
Fundamentals of Electrical Engineering  
Three Credit Hours
Required of electrical engineering freshmen.
An introduction to the engineering profession, branches and functions of engineering, professional ethics, and the role of engineers in society. Fundamentals of engineering problem solving and the use of calculators and computers as tools to aid in problem solving. Includes subject areas common to most engineering disciplines such as the introduction to the engineering design process and teamwork through a design project, engineering laboratory skills, report writing, and engineering economics, but through the use of electrical engineering exemplars.
Lecture: three hours

ELEC 201  
Electric Circuit Analysis I  
Three Credit Hours
Corequisites: MATH 131, PHYS 221/271.
Required of electrical engineering sophomores.
Circuit elements; Kirchhoff’s and Ohm’s Law and their application through a variety of circuit analysis techniques; operational amplifiers; and the transient response of simple circuits. The circuit analysis program SPICE is introduced.
Lecture: three hours

ELEC 202  
Electric Circuit Analysis II  
Three Credit Hours
Prerequisites: ELEC 201 with a grade of C or better or the successful completion of both ELEC 208 and ELEC 204 with grades of C or better.
Prerequisites or corequisites: MATH 132, PHYS 222/272
Required of electrical engineering sophomores.
Sinusoidal analysis and phasors; AC power; three-phase circuits; frequency response of simple circuits; the use of SPICE for ac circuit analysis.
Lecture: three hours
Students must earn at least a “C” in ELEC 202 before enrolling in any ELEC courses for which ELEC 202 is a prerequisite.

ELEC 204  
Electrical Laboratory I  
One Credit Hour
Prerequisites or corequisites: ELEC 202 or ELEC 208
Required of electrical engineering sophomores.
An introduction to the experimental method. Laboratory exercises are designed to supplement the material presented in ELEC 201 and ELEC 202.
Laboratory: two hours.

ELEC 206  
Computer Applications for Electrical Engineers  
Three Credit Hours
Required of electrical engineering freshmen.
The computer is presented as a tool for the solution of electrical engineering problems. High level programming of computers; data manipulation, plotting, and equation solving using application programs such as MATLAB and C++. Lecture: three hours.
ELEC 208  *Principles of Electrical Engineering*  Three Credit Hours

Prerequisite or corequisite: MATH 131; consent of department head is required for electrical engineering majors.

This course in electrical engineering for non-electrical engineering majors provides a foundation in basic circuit theory and analysis, power in circuits, and analog electronics. Theories and concepts presented in the course are illustrated through lecture, practical applications, and laboratory work.

Lecture: two hours; laboratory: two hours

ELEC 302  *Electrical Laboratory II*  One Credit Hour

Prerequisite or corequisite: ELEC 316

Laboratory exercises supplement the material presented in ELEC 312, 316, and 330.

Laboratory: two hours.

ELEC 306  *Electronics I*  Three Credit Hours

Prerequisites: ELEC 202, ELEC 204

Corequisite: ELEC 313

Required of electrical engineering juniors.

Characteristics of solid-state devices; diodes; transistor biasing and stabilization; theory and design of low-frequency amplifiers, utilizing bipolar and MOS devices.

Lecture: three hours.

ELEC 307  *Nuclear Engineering*  Three Credit Hours

Prerequisite: PHYS 222/272

An introduction to the theory and application of nuclear energy. Topics include fission and the chain reaction; nuclear fuels; nuclear reactor principles, concepts, examples, construction, operation, and ecological impact; radiation hazards and shielding; and nuclear propulsion.

Lecture: three hours.

ELEC 308  *Elements of Electrical Engineering*  Three Credit Hours

Prerequisite: MATH 131

Fundamental electrical concepts and units; basic laws of electrical circuits; equivalent circuits; DC and steady-state AC circuit analysis; and effective current, average power, and three-phase power.

Lecture: three hours.

ELEC 309  *Signals and Systems*  Three Credit Hours

Prerequisites: ELEC 202, ELEC 204, ELEC 206

Required of electrical engineering juniors.

The study of continuous and discrete systems utilizing Laplace and z-transform theory.

Lecture: three hours.

ELEC 311  *Digital Logic and Circuits*  Three Credit Hours

Required of electrical engineering sophomores.

Introduction to discrete mathematics topics such as Boolean algebra; digital data coding, and digital arithmetic. Design of combinational and sequential circuits; design, implementation and testing of digital circuits using field programmable gate arrays. Employs VHDL and other industry standard design tools.

Lecture: three hours.
ELEC 312  *Systems I*  Three Credit Hours
   Prerequisite: ELEC 309
   Required of electrical engineering juniors.
   An introduction to feedback control systems, system representation, stability, 
   root-locus and frequency response, and compensation.
   Lecture: three hours.

ELEC 313  *Electrical Laboratory II*  One Credit Hour
   Prerequisite: ELEC 204
   Corequisite: ELEC 306
   Required of electrical engineering juniors.
   Laboratory exercises supplement in the material presented in ELEC 306, 
   309, and 311.
   Laboratory: two hours.

ELEC 316  *Electromechanical Energy Conversion*  Three Credit Hours
   Prerequisite: ELEC 309 or consent of the department head; prerequisite or 
   corequisite: ELEC 302
   Required of electrical engineering juniors.
   Analysis of transformers; fundamentals of electromechanical energy conver-
   sion; and study of DC, induction, and synchronous machines.
   Lecture: three hours.

ELEC 318  *Electromagnetic Fields*  Three Credit Hours
   Prerequisites: ELEC 202, PHYS 222/272
   Corequisite: MATH 335
   Required of electrical engineering juniors.
   Static electric and magnetic fields; experimental laws and their relation to 
   Maxwell’s equations and their applications; Laplace’s equation; boundary value 
   problems; time varying fields and plane waves.
   Lecture: three hours.

ELEC 330  *Digital Systems Engineering*  Three Credit Hours
   Prerequisite: ELEC 311
   Required of electrical engineering sophomores.
   Microcontroller fundamentals including architecture, assembly language pro-
   gramming, and interfacing. Applications of industry-standard microcontrollers 
   in embedded systems. Employs software design tools, simulators, and hardware 
   trainers.
   Lecture: three hours.

ELEC 401  *Electronics II*  Three Credit Hours
   Prerequisites: ELEC 306 and ELEC 313
   Characteristics and applications of analog and digital circuits. Topics may 
   include power electronics, buck and boost converters, switching amplifiers, 
   differential amplifiers, power amplifiers, multistage amplifiers, oscillators, filter 
   circuits, and CMOS digital logic.
   Lecture: three hours.
ELEC 403  *Electric Power Systems*  
Prerequisite: ELEC 316  
Prerequisite or corequisite: ELEC 318  
A study of electrical power generation, transmission, and distribution; symmetrical components, per-unit analysis, calculation of transmission-line parameters and load flow.  
Lecture: three hours.

ELEC 405  *Electrical Measurements*  
Prerequisite: ELEC 313  
An introduction to modern electrical instrumentation and measurements. Topics include measurement theory, analog and digital signal conditioning, noise, transducers, instrumentation system design, digital interfaces, and computer-based instrumentation and measurement.  
Lecture: three hours.

ELEC 407  *Systems II*  
Prerequisite: ELEC 312  
A continuation of Systems I with primary emphasis on digital control systems. Topics include state-variable analysis, simulation techniques, controllability, state-variable feedback, observability, and state estimator design.  
Lecture: three hours.

ELEC 412  *Applied Probability and Statistics for Engineers*  
Prerequisites: MATH 231, ELEC 206.  
Required of all electrical engineering majors.  
Application of the theory of probability and statistics in modeling random phenomena and signals; in the calculation of system responses; and in making estimates, inferences and decisions in the presence of chance and uncertainty. Applications will be studied in areas such as communications, power systems, device modeling, measurements, reliability and quality control.  
Lecture: three hours.

ELEC 413  *Advanced Topics in Electrical Engineering*  
Advanced topics in electrical engineering. Offered occasionally when the special interests of students and faculty coincide. The syllabus must be approved by the Electrical Engineering Faculty. Since the content of the course may change, a student may repeat this course for credit with the permission of the department head.  
Lecture: three hours.

ELEC 414  *System Simulation*  
Prerequisite: ELEC 312  
An introduction to system concepts, mathematical models of systems, and simulation methods applied to a broad range of systems. Design project required.  
Lecture: three hours.
ELEC 416  Communications Engineering  Three Credit Hours
Prerequisites: ELEC 309 and ELEC 311
Prerequisite or corequisite: ELEC 306
Principles of amplitude, frequency, and pulse modulation; signal flow and processing in communications systems; and analog and digital communication systems.
Lecture: three hours.

ELEC 418  Advanced Digital Systems  Three Credit Hours
Prerequisite or corequisite: ELEC 330 or CSCI 305
Experience in advanced digital design techniques and exposure to the development tools used in the design of advanced digital systems. Topics include the design of digital systems using VHDL, industry standard FPGA devices and software, and microprocessor hardware components.
Lecture: three hours.

ELEC 419  Computer Network Architecture  Three Credit Hours
This course will cover network architectures and protocols. Included are transmission technologies, encoding/decoding schemes, packet switching, frame relay, ISDN, ATM and performance modeling techniques.
Lecture: three hours.

ELEC 421  Design I  Three Credit Hours
Prerequisites: ELEC 302, ELEC 306, ELEC 312, ELEC 313, ELEC 316, ELEC 330, and ELEC 318, or consent of the department head.
Required of electrical engineering seniors.
Initiation, design, scheduling, documentation and reporting on a major design project. Normally accomplished by students working in small groups. All students will make written and oral presentations on their contributions to the project. Financial, legal, ethical, societal, regulatory, environmental, manufacturability, and quality issues will be discussed and will constrain the designs as appropriate.
Lecture: one hour; laboratory: four hours.

ELEC 422  Design II  Three Credit Hours
Prerequisite: ELEC 421 taken the preceding semester.
Required of all electrical engineering seniors.
Continuation of the major design project begun in ELEC 421. Project implementation, documentation, and reporting. Normally to be accomplished by students working in the small groups formed in ELEC 421. The impact of the practical, societal, and governmental issues raised in ELEC 421 will be assessed. Each student will make written and oral presentations on their contributions to the project. A prototype demonstration and presentation of final results in a symposium format is required.
Lecture: one hour; laboratory: four hours.
ELEC 423  *Digital Signal Processing*  Three Credit Hours
Prerequisite: ELEC 309 and ELEC 330
Introduction to the characteristics, design, and applications of discrete time systems including discrete time Fourier Transforms, FIR, and IIR Systems. Design of FIR and IIR filters. Design of Chebyshev and Butterworth filters. Introduction to DSP architecture.
Lecture: three hours.

ELEC 424  *Solid-State Devices*  Three Credit Hours
Prerequisites: PHYS 222/272, MATH 234, and ELEC 306
Basic principles governing the operation of solid-state devices are developed from fundamental concepts. P-N junction theory is developed and applied to the analysis of devices such as bipolar transistors, solar cells, detectors, and photo devices. The theory of field-effect devices is developed.
Lecture: three hours.

ELEC 425  *Interference Control in Electronics*  Three Credit Hours
Prerequisites: ELEC 309 and ELEC 318
An introduction to the control and measurement of interference between electronic devices. Analysis methods and practical design techniques to minimize both radiated and conducted emissions and susceptibility will be taught. The course will also cover ways of enhancing signal integrity in high-speed circuits and reducing crosstalk. Laboratory exercises and demonstrations will be used to reinforce the material.
Lecture: three hours.

ELEC 426  *Antennas and Propagation*  Three Credit Hours
Prerequisite: ELEC 318
Transmission, radiation, and propagation of electromagnetic waves by means of transmission lines, waveguides, optical fibers, and antennas.
Lecture: three hours.

ELEC 427  *Energy Systems Engineering*  Three Credit Hours
Prerequisites: MATH 131 and PHYS 221/271
An overview of current and emerging methods of energy conversion used to generate electricity and to support all methods of transportation. This basic look includes study of the thermodynamics, chemistry, flow and transport processes that apply to energy conversion with emphasis on sustainability, efficiency, environmental impact and performance. Systems utilizing fossil fuels, nuclear and renewable resources are studied. Study of energy storage and transmission is included as required to assess both stationary power generation and transportation energy needs.
Lecture: three hours.
ELEC 428  Computer Architecture  Three Credit Hours
Prerequisite: ELEC 330
Organization and design of computer system hardware. Provides the basic knowledge required for understanding and designing standard and advanced computer architectures. Topics include: instruction set architectures, ALU design and computer arithmetic, memory organization, cache and virtual memories, controller design, pipelining and parallelism.
Lecture: three hours.

ELEC 430  Independent Research in Electrical Engineering  Three Credit Hours
Prerequisites: Junior or senior standing and department head approval.
This course may be taken by a student wishing to engage in research of mutual interest to the student and to the faculty advisor who directs the study. The student is required to; define a problem, conduct a review of relevant literature, develop an original solution to the problem, perform analysis and design as necessary, and perform experiments or simulations to evaluate the solution. The student is required to consult the faculty advisor in-person at least once per week. The study will culminate in a formal written report, formatted in the style of a published conference-proceedings paper.

ELEC 450  Electrical Engineering Internship  Three Credit Hours
Prerequisite: Department Head Approval
The student, on an individual basis, pursues advanced understanding by working for an electrical engineering company. The scope of the activities is tailored to the educational focus of the student in consultation with the student’s faculty advisor and the supervisor at the company. The student is required to provide weekly journaling, monthly supervisor evaluations, a final presentation, and a final report on the experience. Consultation with the Department Faculty Advisor is required at least once a week on individual work accomplished.
## COMPUTER ENGINEERING MAJOR
### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101 1 (2.0)*</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101 3 (3.0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101 3 (3.0)</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>ELEC 106 3 (3.0)</td>
</tr>
<tr>
<td><strong>Approved Science</strong></td>
<td>3 (3.0)</td>
</tr>
<tr>
<td><strong>Approved Science Laboratory</strong></td>
<td>1 (0.2)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH 131 4 (4.0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td>101 1 (1.0)</td>
</tr>
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### Sophomore Year

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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/ 1 (1.0)</td>
</tr>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM 260 3 (3.0)</td>
</tr>
<tr>
<td>Electric Circuit Analysis I</td>
<td>ELEC 201 3 (3.0)</td>
</tr>
<tr>
<td>Introduction to Computer Science II</td>
<td>CSCI 202 3 (3.0)</td>
</tr>
<tr>
<td>Physics with Calculus I</td>
<td>PHYS 221 3 (3.0)</td>
</tr>
<tr>
<td>Physics with Calculus I Laboratory</td>
<td>PHYS 271 1 (0.2)</td>
</tr>
<tr>
<td>Digital Logic and Circuit</td>
<td>ELEC 311 3 (3.0)</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td>201 2 (2.0)</td>
</tr>
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### Junior Year

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311 0 (1.0)</td>
</tr>
<tr>
<td>Electronics I</td>
<td>ELEC 306 3 (3.0)</td>
</tr>
<tr>
<td>Signals and Systems</td>
<td>ELEC 309 3 (3.0)</td>
</tr>
<tr>
<td>Electronics Laboratory</td>
<td>ELEC 313 1 (0.2)</td>
</tr>
<tr>
<td>Introduction to Discrete Structures</td>
<td>MATH 206 3 (3.0)</td>
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<tr>
<td>Computer Architecture</td>
<td>ELEC 428 3 (3.0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371 3 (3.0)</td>
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### Senior Year

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<th>Course</th>
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<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411 0 (1.0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x 3 (3.0)</td>
</tr>
<tr>
<td>Applied Probability and Statistics for Engineers</td>
<td>ELEC 412 3 (3.0)</td>
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<tr>
<td>***Approved Department Elective</td>
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<tr>
<td>Software Engineering</td>
<td>CSCI 420 3 (3.0)</td>
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<tr>
<td>Design I</td>
<td>ELEC 421 3 (3.0)</td>
</tr>
<tr>
<td>***Approved Departmental Elective</td>
<td>ELEC 4xx 3 (3.0)</td>
</tr>
</tbody>
</table>

*Represents semester credit. Lecture, laboratory hours, in that order.

**BIOL 150/151 or CHEM 140/141

***APPROVED DEPARTMENT ELECTIVES: ELEC 401, ELEC 405, ELEC 407, ELEC 413, ELEC 416, ELEC 418, ELEC 419, ELEC 423, ELEC 424, ELEC 430, ELEC 450, and CSCI 327, CSCI 370, CSCI 405, CSCI 455, or other technical course approved by the department head.
# COMPUTER ENGINEERING MAJOR

## Second Semester

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED</td>
<td>260</td>
<td>(3,0)</td>
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<tr>
<td><strong>Approved Science</strong></td>
<td></td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td><strong>Approved Science Laboratory</strong></td>
<td></td>
<td>1</td>
<td>(0,2)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH</td>
<td>132</td>
<td>(4,0)</td>
</tr>
<tr>
<td>Engineering Economy</td>
<td>CIVL</td>
<td>314</td>
<td>(2,0)</td>
</tr>
<tr>
<td>Introduction to Computer Science I</td>
<td>CSCI</td>
<td>201</td>
<td>(3,0)</td>
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<tr>
<td>Introduction to Computer Science I Lab</td>
<td>CSCI</td>
<td>211</td>
<td>(0,1)</td>
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<tr>
<td>1st Year Basic ROTC</td>
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<td>102</td>
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### SOPHOMORE YEAR

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<tr>
<td>Strand English</td>
<td>ENGS</td>
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<tr>
<td>Applied Mathematics I</td>
<td>MATH</td>
<td>234</td>
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<tr>
<td>Physics with Calculus II</td>
<td>PHYS</td>
<td>222</td>
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<td>Physics with Calculus II Laboratory</td>
<td>PHYS</td>
<td>272</td>
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<tr>
<td>Electric Circuit Analysis II</td>
<td>ELEC</td>
<td>202</td>
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<tr>
<td>Electrical Laboratory</td>
<td>ELEC</td>
<td>204</td>
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<tr>
<td>Digital Systems Engineering</td>
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<td>Required Physical Education</td>
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<td>2nd Year Basic ROTC</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>Strand History</td>
<td>HISS</td>
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<tr>
<td>Systems I</td>
<td>ELEC</td>
<td>312</td>
<td>(3,0)</td>
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<tr>
<td>Data Structures and Algorithms</td>
<td>CSCI</td>
<td>223</td>
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<td>(3,0)</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED</td>
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<td>(0,1)</td>
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<tr>
<td>Project Management Career Skills</td>
<td>PMGT</td>
<td>401</td>
<td>(3,0)</td>
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<tr>
<td>and/or 1st Year Advanced ROTC (contract cadets)</td>
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### SENIOR YEAR

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<tbody>
<tr>
<td>Strand Elective</td>
<td>ELES</td>
<td>30x</td>
<td>(3,0)</td>
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<tr>
<td>+Technical Elective</td>
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<td>3</td>
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<td>and/or 2nd Year Advanced ROTC</td>
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</tbody>
</table>

+Technical Electives: *Optics (PHYS 308), Thermodynamics (PHYS 410), Statics (CIVL 202), Applied Numerical Methods I or II (MATH 343 or 344), Advanced Topics in Mathematics (MATH 490), Deterministic Methods of Operational Research, (MATH 381), Mathematical Models and Applications, (MATH 470), Computer Applications w/ Lab, (MECH 325), or other technical course approved by the department head.

REQUIRED FOR GRADUATION: 132 credit hours (129 for contract cadets) plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>First Year Experience</td>
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<td><strong>SOPHOMORE YEAR</strong></td>
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<td>Digital Logic and Circuit</td>
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<td><strong>JUNIOR YEAR</strong></td>
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<td>Signals and Systems</td>
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<td>Electronics Laboratory</td>
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<td>Applied Mathematics II</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<td>Applied Probability and Statistics for Engineers</td>
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<tr>
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*Represents semester credit. Lecture, laboratory hours, in that order.
**BIOL 150/151 or CHEM 140/141
***APPROVED DEPARTMENT ELECTIVES: ELEC 307, ELEC 401, ELEC 403, ELEC 405, ELEC 407, ELEC 413, ELEC 414, ELEC 416, ELEC 418, ELEC 419, ELEC 423, ELEC 424, ELEC 425, ELEC 426, ELEC 427, ELEC 428, ELEC 430, ELEC 450, and CSCI 420, or other technical course approved by the department head.
### ELECTRICAL ENGINEERING MAJOR

#### Second Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
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</thead>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
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<tr>
<td><strong>Approved Science Laboratory</strong></td>
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<tr>
<td>Engineering Economy</td>
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<tr>
<td>Computer Applications for Electrical Engineers</td>
<td>ELEC</td>
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**SOPHOMORE YEAR**

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**JUNIOR YEAR**

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<td>Strand History</td>
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<td>Electromechanical Energy Conversion</td>
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<td>Electromagnetic Fields</td>
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<td>Electrical Machinery Laboratory</td>
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**SENIOR YEAR**

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<td>***Approved Department Elective</td>
<td>ELEC</td>
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<td>4XX</td>
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<tr>
<td>Senior Capstone/Design II</td>
<td>ELEC</td>
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<tr>
<td>and/or 2nd Year Advanced ROTC</td>
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</table>

**+Technical Electives:** Technical Electives: Optics (PHYS 308), Thermodynamics (PHYS 410), Statics and Mechanics of Materials For Non-Civil Engineers, (CIVL 310); Data Structures, (CSCI 223); Statics (CIVL 202), Applied Numerical Methods I or II (MATH 343 or 344), Advanced Topics in Mathematics (MATH 490), Deterministic Methods of Operational Research, (MATH 381), Mathematical Models and Applications, (MATH 470), Computer Applications w/ Lab, (MECH 325), or other technical course approved by the department head.

**REQUIRED FOR GRADUATION:** 132 credit hours (129 for contract cadets) plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Mechanical Engineering

Department Head: Rabb  
Professors: Rabb  
Associate Professors: Bubacz, Skenes  
Assistant Professor: Bass, Bierman, Geathers, Washuta, Righter, Ragan, Elamin  
Instructor: Niksiar

Mechanical Engineering Program’s Mission Statement
To broadly educate and prepare graduates to become principled mechanical engineering leaders in the global community by instilling the core values of The Citadel, the School of Engineering and the Mechanical Engineering program in a challenging intellectual environment that includes a broad-based, rigorous curriculum, emphasizing theoretical and practical engineering concepts, strong professional values, and a disciplined work ethic.

Program Educational Objectives
The Mechanical Engineering Program educational objectives prepare graduates to attain:

- Success in the practice of mechanical engineering, by ethically and judiciously applying knowledge of science, mathematics and engineering methods to solve problems facing a technologically complex society.
- Positions to apply and operate current engineering and analysis tools and equipment to conduct and/or lead engineering analysis, design and research.
- Self-Development to value and pursue lifelong learning, not only to keep current in the mechanical engineering field, but also to sustain awareness of engineering-related issues facing contemporary society through formal and informal opportunities.
- Graduate education and/or professional registration as desired or required.
- Roles as principled leaders with strong communications and team-building skills to lead people, manage resources, solve complex problems, communicate information, and influence decisions.

Program Core Values
The Mechanical Engineering Program has adopted the following core values:

Students are our Focus: We believe the education, development, empowerment, and welfare of our students are the primary focus of our efforts.

Engineers as Principled Leaders: We believe the engineering profession requires the highest professional and ethical standards, which we seek to model, teach and prepare our students to embrace.

Collaborative Teaching and Learning Environment: We believe a collaborative collegial environment among our faculty, staff and students is critical in sustaining advancement in educational excellence.

Growth through Assessment: We believe data-driven inquiry and improvement will lead us to sustained advancement in educational excellence.
Program Outcomes
Students who qualify for graduation with a mechanical engineering major will demonstrate an ability to:
1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Program of Study
The Mechanical Engineering program will incorporate a number of courses within the existing ABET accredited civil and electrical engineering programs. As shown in the program of study, there will be five main focus areas to meet the needs of the local industry in South Carolina:
1. Manufacturing Engineering – Students acquire knowledge in different manufacturing practices to optimize the processes and systems in a production environment.
2. Composites – Students study composite materials, the principles behind their design, their physical properties, fabrication methods, and application to real-world engineering solutions.
3. Power and Energy – Students learn about energy resources, alternative energy, energy storage, conversion between forms of energy, and energy performance limitations as they apply to satisfying the needs of mankind.
4. Aeronautical Systems – Students study the science and design of fixed wing light systems, aircraft performance and structures.
5. Mechatronics – Students apply skills from mechanical engineering and electrical engineering to enable real-world control of robots, unmanned aerial vehicles, and other autonomous systems.

Fabrication Shop
The Fabrication Shop is a 1250 square foot facility with a four-axis CNC machine, mill, welding equipment, and other metal working tools. Additionally, there are bandsaws, miter saws, a table saw, sanding station, and various other woodworking tools for student projects and design work.

Project Shop
The Project Shop is a 750 square foot facility with workspace and storage space for assembly of student projects. It provides a cleaner space for final work.
The Main Computer Lab – LeTellier 203
LeTellier 203 is the primary teaching and student-use computer facility in the Mechanical Engineering Program. The twenty-four student stations and one projection-capable instructor station and laser printer located in this lab are connected to the campus-wide network, CITnet, and provide direct Internet access via Ethernet. The software in the labs is Windows-based. All machines in the lab have graphics-capable WWW browsers. The program’s standard general purpose software includes: Microsoft Office, Matlab, and SolidWorks.

Controls and Mechatronics Lab – Grimsley 330
Grimsley 330 is the primary teaching and student-use facility in the Mechatronics focus area of the Mechanical Engineering Program. The room contains twenty-four student workstations or twelve team stations and one instructor station. The software in the room is Windows-based. Laboratory equipment consists of standard function generators, oscilloscopes, multimeters, and Feedback instruments for laboratory use and applications.

Materials Testing Laboratory – LeTellier 101
Major items of equipment include a 250,000 pound and another 300,000 pound concrete cylinder testing machine; 2 each 60,000-pound hydraulic universal testing machines; light microscope; impact tester; hardness tester; grinder/polisher; dual chamber furnace; and equipment for making tension, compression, shearing, and most other accepted and significant tests on metals, ceramics, polymers, and composites.

Fluid Mechanics Laboratory – LeTellier 104
Equipment is provided for a wide variety of experiments and tests involving the flow of water through pipe networks, meters, and orifices. Other major items of equipment include a head loss and flow measurement fluid circuit apparatus, a Reynolds number device, two (2) hydraulic demonstration units permitting experiments involving many phenomena of open channel flow.

Other engineering equipment
Adequate equipment is available for the courses in thermo-fluids, machine design, manufacturing, as well as for the other junior and senior courses.

Fundamentals of Engineering Examination
Each graduating student is required to take the Fundamentals of Engineering (FE) Examination and provide documentation to the program director.

Degree
The degree of Bachelor of Science in Mechanical Engineering (B.S. M.E.) is awarded to those who successfully complete the program of studies outlined in the courses offerings section of this catalog.
Two humanities or social science electives, one Mechanical elective, one technical elective, and two mechanical engineering Options are required. These are selected from a list of approved electives maintained by the Mechanical Engineering Program. In completing the two humanities or social science electives, the student will take one from the core curriculum. The other will be a program approved course. The mechanical engineering Options allow the students to specialize in a technical area of mechanical engineering by completing a focus area at the senior level that integrates principles and practices of earlier courses into the application of the engineering system. Students who are on academic probation will not be permitted to enroll in upper level courses offered by the mechanical engineering program (i.e. junior and senior level classes).

All undergraduate courses taken at The Citadel with a subject prefix of MECH will count towards the major GPA.

**Minor in Mechanical Engineering**

**Objectives:**

The minor in mechanical engineering is designed to allow the student with quantitative and scientific aptitudes and interests to acquire a basic level of competence in one of four fields of mechanical engineering.

**Competencies, Knowledge, or Skills to be Achieved:**

A student who completes this minor will have the opportunity to develop a basic competency in mechanical engineering, apply basic engineering principles to another field, stimulate creative thinking, and develop problem-solving skills. Through the elective field of emphasis, the student will achieve additional knowledge or skill in one of the functional areas: power and energy, mechatronics, manufacturing, or composites.

**Structure of the Minor:**

1. **Required courses:** (6 credit hours)
   - CIVL 202 Statics
   - CIVL 203 Dynamics

2. **Elective Fields of Emphasis:**
   - **Energy:** (12 credit hours)
     - MECH 310 Thermo-Fluids I w/lab
     - MECH 311 Thermo-Fluids II w/lab
     - MECH 365 Computational Methods in Engineering
     - MECH 415 Heat Transfer
   - **OR**
     - Mechatronics: (12 credit hours)
     - ELEC 208 Principles of Electrical Engineering
     - MECH 330 Measurements and Instrumentation w/lab
     - MECH 350 Modeling and Analysis of Dynamic Systems I
     - MECH 450 Mechatronics w/lab
   - **OR**

   **Manufacturing:** (16 credit hours)
   - CIVL 304 Mechanics of Materials
   - CIVL 307 Materials Laboratory
   - MECH 304 Engineering Materials w/lab
   - MECH 340 Manufacturing Processes w/lab
   - MECH 345 Machine Design
   - MECH 360 Mechanical Engineering Systems Design
OR

Composites: (16 credit hours)
- CIVL 304  Mechanics of Materials
- CIVL 307  Materials Laboratory
- MECH 304  Engineering Materials w/lab
- MECH 340  Manufacturing Processes w/lab
- MECH 404* Advanced Materials
- MECH 408* Composite Design
- MECH 409* Composite Manufacturing w/lab

* Choice of 2 from MECH 404, MECH 408, and MECH 409

**Total Credit Hours Required**
18 (Energy Track)
22 (Mechatronics Track)
22 (Manufacturing Track)
22 (Composites Track)

At least 9 credit hours must be completed at The Citadel.

For further information, please contact the Department of Mechanical Engineering.

**Mechanical Engineering Course Descriptions**

**MECH 101  Introduction to Mechanical Engineering**  One Credit Hour
- Required of all Mechanical Engineering freshmen.
  The engineering design process is demonstrated through use of practical problem-solving methods for mechanical projects. Course subjects include mechanical engineering career paths, ethical canons of the engineering profession, and requirements for professional licensure. Course assignments, conducted within a collaborative learning environment, focus on creative engineering solutions through technical analysis, teamwork, communication skills, and professionalism. As a foundation for sustained success in mechanical engineering, additional course topics include: lifelong learning, time management, community and professional service, and career development.
  Laboratory: 2 hours.

**MECH 102  Engineering Computer Applications**  Two Credit Hours
- Required of all Mechanical Engineering freshmen.
  Foundations of computing to include software tools and engineering processes for mechanical engineers. Topics may include: structured programming (MATLAB), graphical drawings and 2D and 3D modeling of parts and assemblies. Introduction to teaming and creativity.
  Laboratory: 4 hours.

**MECH 225  Computer Applications w/Lab**  Three Credit Hours
- Prerequisite: MECH 102
  This course uses applied problems in engineering to introduce Computer-Aided Drafting (CAD) techniques. Covered topics include creation and editing of 3D parts and assemblies with appropriate design intent, part and assembly troubleshooting, configurations, engineering drawings, equation-based modeling, and finite element analysis.
  Lecture: 2 hours.
  Laboratory: 2 hours.
MECH 304  Engineering Materials w/Lab  Three Credit Hours
Prerequisites: CIVL 304/307 and CHEM 140 or CHEM 151.
Course explores the relationships between the microscopic structure and macroscopic properties of materials used in engineering applications. The origin of mechanical, electrical, thermal and optical properties is studied. Important material failure modes that occur under fatigue, elevated temperature, rapid loading and corrosive environments are explored. Emphasized is an understanding of the fundamental aspects of atomic and microstructural concepts for proper materials selection, effects of processing on material properties, and enhancement of engineering properties. Materials under study include important metals and alloys as well as key nonmetallic materials such as polymers, ceramics, and composites. Laboratory exercises are integrated throughout the course to provide practical experience in making decisions concerning material composition and processing in order to optimize engineering properties. Experiences from the field are detailed to demonstrate applicability of concepts.
Lecture: 2 hours;
Laboratory: 2 hours.

MECH 310  Thermal – Fluid Systems I w/Lab  Three Credit Hours
Prerequisites: MATH 132, PHYS 221, PHYS 271;
Prerequisites or Corequisites: MATH 231, CIVL 203.
Thermal-Fluid System I is an integrated study of fundamental topics in thermodynamics and fluid mechanics. The course introduces conservation principles for mass, energy, and linear momentum as well as the 2nd Law of Thermodynamics. Principles are applied to incompressible flows in pipes and turbomachinery, external flows and power generation systems. A control volume approach to analyze these systems is also introduced. Laboratory exercises are integrated into classroom work.
Lecture: 2 hours.
Laboratory: 2 hours.

MECH 311  Thermal – Fluid Systems II w/Lab  Three Credit Hours
Prerequisite: MECH 310 with a grade of “C” or higher.
Thermal-Fluid Systems II continues the integrated study of fundamental topics in thermodynamics and fluid mechanics. The course applies conservation principles for mass, energy, and linear momentum as well as the 2nd Law of Thermodynamics. Principles are applied to power generation systems (Rankine, Otto, Diesel, and Brayton cycles), refrigeration cycles, air conditioning processes, internal pipe flows, and aerodynamics. Laboratory exercises are integrated into classroom work. This course includes completion of a comprehensive, out-of-class design problem. This design problem provides the opportunity for students to apply engineering science to the design of a comprehensive thermal-fluid system.
Lecture: 2 hours.
Laboratory: 2 hours.
MECH 330 *Measurements and Instrumentation w/ Lab* Three Credit Hours
Prerequisite: ELEC 201 or ELEC 208
Fundamentals of measurement systems in mechanical engineering including transducer operation, signal conditioning, data reduction, and presentation of results. Transducer and measurement system characteristics including resolution, sensitivity, loading, time response, and frequency response. Operating principles of basic instrumentation for measurement of mechanical quantities such as force, torque, pressure, velocities, accelerations, temperature, and flow. Topics include uncertainty analysis, data analysis, probability and statistics, calibration, data acquisition, presentation of results, and an introduction to experiment design.
Lecture: 2 hours.
Laboratory: 2 hours.

MECH 340 *Manufacturing Processes w/ Lab* Three Credit Hours
Prerequisites: CIVL 304/307.
This is an introductory course that examines the interactions between design and manufacturing from the designer’s point of view. The first portion of the class is devoted to safe, hands-on experience with manufacturing machines and equipment. Students will have an opportunity to work on civil and mechanical manufacturing machines that are common in machine, woodworking, and sheet metal shops such as a mill, lathe, grinder, belt sander, drill press, and band saw. Common manufacturing processes will be introduced and design guidelines will be developed for each process. The successful student will leave this class with an appreciation that a designer must consider the method of manufacture during the design process to ensure that a product is functional, economically viable, and safe. Basic principles of metal processing; applied mechanics of metal cutting and forming; cost analysis of manufacturing operations.
Lecture: 2 hours.
Laboratory: 2 hours.

MECH 345 *Machine Design* Three Credit Hours
Prerequisites: CIVL 304
This course introduces mechanical engineering design as an iterative decision making process and fundamental engineering science applied to machine components. Analysis for the design and manufacture of basic mechanical elements and their role in the design of machines; introduction to failure theory, fatigue analysis, and energy methods for deflection analysis and their application of them to the design and analysis of machine elements; design of multi-component systems. Useful design techniques (such as modeling, CPM, optimization, probabilistic approaches, etc.) and factors influencing design (such as human factors, products liability, ethics, societal, economics, safety, etc.) are presented, discussed, and incorporated. Design against static failure and fatigue failure of structural members and machine parts: design and selection of components including fasteners, shafts, springs, gears, bearings, and chain drives. The course culminates in a team-oriented process, design, and manufacture of a mechanical engineering product using the techniques, tools, machines, and equipment that were developed and taught throughout the course.
Lecture: 3 hours.
MECH 350  
*Modeling and Analysis of Dynamic Systems I*

Prerequisites: CIVL 203, MECH 330, MATH 234.

This course covers dynamic modeling and control of linear systems through an overview of classical control theory as the foundation for control applications in electrical and mechanical systems. Topics include system modeling using Laplace transform and Root Locus methods. Mathematical models are developed for electrical, mechanical, and other physical control systems. Control systems analysis and design techniques are studied within the context of how each system is physically controlled in practice.

Lecture: 3 hours.

MECH 351  
*Modeling and Analysis of Dynamic Systems II w/Lab*

Prerequisite: MECH 350.

This course continues the integrated study of controls engineering. Topics include stability, steady state error, transient response, vibrations, sinusoidal frequency analysis, system modeling and design via frequency response methods, state space methods, and introduction to digital control. Laboratory exercises are integrated into classroom work.

Lecture: 2 hours.
Laboratory: 2 hours.

MECH 360  
*Mechanical Engineering System Design*

Corequisite: MECH 345.

This course provides experience in the integration of math, science, and engineering principles leading to a comprehensive engineering design project. Open-ended, client-based design problems emphasize a multidisciplinary approach to total system design providing multiple paths to a number of feasible and acceptable solutions which meet the stated performance requirements. Design teams are required to develop product specifications, generate alternatives through modeling, make practical engineering approximations to include probabilistic approaches, perform appropriate analysis to support the technical feasibility of the design, and make decisions leading to an optimal system design. System integration, reverse engineering/redesign projects, human factors engineering, products liability, ethics, safety, computer-aided design, maintainability, and fabrication techniques are addressed. This course provides an integrative experience in support of the overarching academic program goal.

Lecture: 3 hours.

MECH 365  
*Computational Methods in Engineering*

Prerequisites: MECH 102.
Prerequisite or corequisite: MATH 234.

An introduction to numerical methods for engineers. Applications include: fluid mechanics, gas dynamics, heat and mass transfer, thermodynamics, vibrations, automatic control systems, and kinematics. Topics include: sources of errors in computing, mathematical bases of numerical methods, and implementation of numerical techniques using MATLAB.

Lecture: 3 hours.
MECH 404  
**Advanced Materials**  
Three Credit Hours  
Prerequisite: MECH 304 with a grade of “C” or higher.  
Fundamentals of deformation and fracture in metals, polymers, ceramics and composites with application to design. Emphasis on time-temperature dependence of polymers, brittle behavior of advanced ceramics, the fracture mechanics approach to high strength and critical application design, and composite behavior.  
Lecture: 3 hours.

MECH 408  
**Composite Design**  
Three Credit Hours  
Prerequisite: MECH 304 with a grade of “C” or higher.  
Introduces materials and mechanics of composites with emphasis on high performance polymer matrix composites. Topics include material selection, laminate analysis/design, design implications from manufacturing and joining methodology, and interpreting test results. A team design-build project is required.  
Lecture: 3 hours.

MECH 409  
**Composite Manufacturing w/Lab**  
Three Credit Hours  
Prerequisite: MECH 304 with a grade of “C” or higher.  
This course covers manufacturing fundamentals, manufacturing processes, composite fabrication and assembly, quality and inspection methods, repair, and required equipment. Topics include material selection, laminate analysis, manufacturing, joining, and testing.  
Lecture: 3 hours.  
Laboratory: 2 hours.

MECH 415  
**Heat Transfer**  
Three Credit Hours  
Prerequisite: MATH 234, MECH 311.  
The three modes of heat transfer (conduction, convection, and radiation) are studied in detail, and applications are made to various engineering components including plane walls, finned surfaces, and tube arrays. The principles of conduction and convection are used to study the design and operation of heat exchangers. Numerical methods are employed to study 2D conduction.  
Lecture: 3 hours.

MECH 416  
**Mass and Energy Balances**  
Three Credit Hours  
Prerequisite: CHEM 140 or 151.  
Introduction to mass and energy balances in single phase and multiphase, non-reactive and reactive systems. Course topics include an introduction to engineering calculations and process variables, use of computers in solving chemical engineering problems, fundamentals of material balances in single-phase and multi-phase systems, energy balances on nonreactive and reactive processes, applications of combined material and energy balances, balances on transient processes, introduction to chemical engineering unit operations, and a general introduction to the field of chemical engineering.  
Lecture: 3 hours.
MECH 417  Renewable Energy  Three Credit Hours
Prerequisite: MECH 310.
Covers renewable energy sources such as solar heating and cooling, wind energy, biomass, and photovoltaic energy. Surveys the energy availability of these sources and life cycle cost and present value used to evaluate the system. Students will design a system which utilizes a renewable energy source and economically evaluate the system.
Lecture: 3 hours

MECH 418  Energy Conversion Systems w/Lab  Three Credit Hours
Prerequisite: MECH 415 with a grade of “C” or higher.
An overview and historical evolution of both classical and state-of-the-art energy conversion technology. Advanced analysis of energy conversion hardware, air conditioning and refrigeration as well as fossil fuel combustion processes using concepts of energy. Major methods of direct energy conversion are covered, including thermoelectricity, photovoltaics, thermionics, magneto hydrodynamics, and fuel cells. Applications of the thermodynamic, heat transfer, and fluid flow principles to the modeling and design of thermal systems. These systems include pumps, fans, and heat and mass exchangers. The current state of national and world energy is presented and alternatives including renewable energy and a hydrogen economy are explored with reference to economic, political, environmental and technological factors.
Lecture: 2 hours.
Laboratory: 2 hours.

MECH 419  Internal Combustion Engines  Three Credit Hours
Prerequisite: MECH 311.
Students engage in the analysis, testing and evaluation of internal combustion engines and their subsystems with a view toward understanding the underlying principles which affect their design. Spark ignition and compression ignition engine systems are studied in detail. Steam, cogeneration and combined cycles are studied. Introduces the theory and issues related to the design of axial and radial flow turbines, compressors and pumps.
Lecture: 3 hours.

MECH 420  Nuclear Reactor Analysis  Three Credit Hours
Prerequisites: MECH 415 with a grade of “C” or higher.
This course focuses on nuclear reactor systems, the release of nuclear energy in the reactor core, and its removal as heat for producing electric power. Specific topics emphasize reactor kinetics, heterogeneous reactors, control rods and shim, reactor poisons, heat transfer, and alternative energy systems. The fundamentals of transport theory and the solution to the transport equation using Monte Carlo N-Particle (MCNPX) transport code are introduced.
Lecture: 3 hours.

MECH 425  Advanced Heat Transfer  Three Credit Hours
Prerequisite: MECH 415 with a grade of “C” or higher.
This course covers additional topics in conduction, convection and radiation heat transfer as well as mass transfer, phase change and numerical methods.
Lecture: 3 hours.
MECH 426  Air Conditioning  Three Credit Hours
Prerequisite: MECH 311.
Human comfort and the properties of air. Air conditioning in residences, public
and industrial buildings using vapor compression and absorption units. Cooling
loads, psychrometry, fans, duct sizing and layout, automatic control, and acoustic
design considerations.
Lecture: 3 hours.

MECH 430  Robotics Engineering w/Lab  Three Credit Hours
Prerequisite: MECH 350.
Interdisciplinary course in engineering systems applied to computer controlled
devices. Topics include kinematics, control, operation, sensing, and design as applied
to various types of industrial and other robots and programmable manipulators. A
related project is required.
Lecture: 2 hours.
Laboratory: 2 hours.

MECH 435  Finite Elements for Engineering  Three Credit Hours
Applications
Prerequisites: CIVL 203, 304, MECH 310.
Emphasizes solving various one-dimensional, transient, non-linear problem state-
ments including heat conduction, beam deflection, convection/diffusion (transport),
gas dynamic shocks, and open channel flows. Assesses higher order bases, time
stepping procedures, iterative solvers, and finite difference methodologies. Utilizes
MATLAB for computational experiments.
Lecture: 3 hours.

MECH 440  Advanced Manufacturing Processes  Three Credit Hours
and their Application
Prerequisites: CIVL 203 and MECH 340 with a grade of “C” or higher.
This course examines major manufacturing processes, their capabilities, analysis,
economics and manufacturing process selection. Computer programming is used for
iterative methods in both analysis and design. Students will perform analysis in the
fields of kinematics, mechanics, fluid mechanics, and heat transfer. The economics
of process selection, batch size, and process flow are discussed. Process control
methods are introduced.
Lecture: 3 hours.

MECH 445  Manufacturing Design w/Lab  Three Credit Hours
Prerequisite: MECH 345 and MECH 440.
Applications of fundamentals of engineering mechanics in analysis and syn-
thesis of machine components and systems to the manufacture of products from
metals, polymers, ceramics, and composites. Use and management of computers in
engineering for drafting, design management, documentation, and manufacturing.
Covers drafting methods and standards, design data management, CNC operations,
implementation, kinematics, control, operation, sensing, and design as applied to
various types of industrial models. A related project is required.
Lecture: 2 hours.
Laboratory: 2 hours.
MECH 450  Mechatronics w/Lab  Three Credit Hours
Prerequisite: MECH 350.
Applications of microprocessors and microcontrollers and digital electronics to the design and utilization of embedded control systems in smart systems and products. Topics include Boolean logic and algebra, system hardware and software development, and interfacing for mechanical applications.
   Lecture: 2 hours.
   Laboratory: 2 hours.

MECH 452  Digital Logic and Circuits w/Lab  Three Credit Hours
Prerequisite: ELEC 201 or ELEC 208
This course covers the analysis, design, simulation, and construction of digital logic circuits and systems. The material in this course provides the necessary tools to design digital hardware circuits such as digital clocks and locks, as well as computer hardware. The course begins with the study of binary and hexadecimal number systems, Boolean algebra, and their application to the design of combinational logic circuits. The first half of the course focuses on designs using small-scale integration (SSI) logic circuits, medium-scale integration (MSI) circuits, and programmable logic devices (PLDs) to implement combinational logic functions. The second half of the course emphasizes sequential logic circuits like counters and sequence recognizers, and also covers memory systems. Laboratory work in this half of the course focuses on using very high speed integrated circuit hardware description language (VHDL) to simulate digital systems and to program those systems into PLDs. As a final project, student teams design, build, and test a digital logic system such as a programmable alarm clock, digital lock, or burglar alarm.
   Lecture: 2 hours.
   Laboratory: 2 hours.

MECH 455  Advanced Mechatronics w/Lab  Three Credit Hours
Prerequisite: MECH 450 with a grade of “C” or higher.
A comprehensive course in the field of mechatronics. Mechatronics is the crossroads in engineering where mechanical engineering, electrical engineering, computer science, and controls engineering meet to create new and exciting real-world systems. Knowledge of mechanical and electrical components, controls theory, and design are integrated to solve actual physical design applications.
   Lecture: 2 hours.
   Laboratory: 2 hours.

MECH 470  Introduction to Applied Aerodynamics  Three Credit Hours
Prerequisite: MECH 311 with a grade of “C” or higher.
The fundamental laws of fluid mechanics are used to develop the characteristic forces and moments generated by the flow about aerodynamic bodies. Physical properties of the standard atmosphere as well as lift, drag, and aerodynamic moments are studied for airfoils (2-D) and finite wings (3-D) in the subsonic and supersonic flow regimes. Students conduct computer simulations throughout the course to observe the physics of actual flows.
   Lecture: 3 hours.
MECH 475  **Aircraft Performance and Static Stability**  Three Credit Hours
Prerequisite: MECH 470.

The course applies the principles developed in applied aerodynamics to develop the equations of motion for a rigid aircraft in steady state level flight, maneuvering flight, and during takeoff and landing. These equations are analyzed to determine such performance characteristics as maximum range, endurance, turning rate, climb rate, etc. Piston-prop, turbo-prop, and jet aircraft are considered. The equations of motion are then analyzed to develop static stability criteria and investigate steady state control characteristics. Design constraints based on customer requirements, mission profiles, aircraft sizing, optimization, and presentation of performance capabilities are considered.

Lecture: 3 hours.

MECH 476  **Propulsion Systems**  Three Credit Hours
Prerequisite: MECH 311 with a grade of “C” or higher.

Application of basic principles in the study of the performance characteristics of air and space vehicles to include the aerodynamics of steady one dimensional isentropic compressible flow. Shock waves, gas turbines, turbojet, turbofan, turbo-prop, turboshift, ram jet, rocket, nuclear propulsion and space propulsion systems are discussed and compared.

Lecture: 3 hours.

MECH 477  **Vibration Engineering**  Three Credit Hours
Prerequisite: CIVL 203.

In this course students develop a foundation in the analysis and design of free and forced single and multi-degree of freedom systems. Applications include modeling, damping, resonance, force transmissibility, vibration absorbers, matrix formulation and modal analysis. Emphasis is placed on vibration examples from several engineering fields. Out-of-class design problems provide students with the opportunity to apply principles taught in the classroom to realistic problems encountered by practicing engineers. In-class demonstrations supplement the theory development.

Lecture: 3 hours.

MECH 478  **Lightweight Structures**  Three Credit Hours
Prerequisite: CIVL 304/307.

Applies the principles of mechanics to the structural analysis of mechanical and aerospace components. Covers stress tensors, shear flow in open and closed sections, beam columns, asymmetrical bending, Castigliano’s theorem, statically indeterminate structures, thin walled pressure vessels, introduction to elasticity.

Lecture: 3 hours.

MECH 481  **Senior Design I**  Three Credit Hours
Prerequisite: MECH 345, MECH 460.

Design projects with industry. Students work in teams with three or four members on design projects furnished from external clients. The emphasis is on creating design solutions, with appropriate analyses, to meet stakeholders’ needs. In addition to regular meetings with their faculty advisors, the teams are expected to maintain close and continuous communications with their clients during the semester. The projects culminate in oral presentations and Interim Written Reports which are submitted to the clients.

Lecture: 3 hours.
MECH 482  Senior Design II  Three Credit Hours
Prerequisite: MECH 481.
This course is a continuation of MECH 481. The student teams continue their
design solutions to a general problem furnished by an external client. Continuous
and regular communication with the outside clients is expected, as well as with the
faculty advisors. During this semester the teams continue refining their solutions,
complete the detail design, make oral presentations of the final design, and complete
and submit the Final Written Report.
Lecture: 3 hour
Laboratory: 5 hours.

MECH 497  Special Topics in Mechanical Engineering  Three Credit Hours
Prerequisite: Department Head approval.
This course provides in-depth study of a special topic in engineering mechanics
or mechanical engineering not offered elsewhere in the curriculum. Course content
will be based on the special expertise of the Visiting Professor or a senior mechani-
cal engineering faculty member.

MECH 498  Mechanical Engineering Internship  Three Credit Hours
Prerequisite: Department Head approval.
The student, on an individual basis, pursues advanced understanding by work-
ing for a mechanical engineering company. The scope of the activities is tailored
to the educational focus of the student in consultation with the faculty advisor and
the supervisor at the company. The student is required to provide weekly journal-
ing, monthly supervisor evaluations, a final presentation, and a final report on the
experience. LESSONS and LABS: No formal class. Consultation with Department
Faculty Advisor at least once a week on individual work accomplished.

MECH 499  Advanced Independent Study in Mechanical Engineering  Three Credit Hours
Prerequisite: Department Head approval.
Other requirements as determined by Faculty Advisor.
The student, on an individual or small group basis, pursues advanced study of a
research topic in mechanical engineering. The scope of the course is tailored to the
desires of the student in consultation with his faculty advisor. The student is required
to define and analyze the problem, study the fundamentals involved, organize the
approach, determine the procedure, achieve a solution, and submit a written report.
LESSONS and LABS: No formal class. Consultation with Department Faculty
Advisor at least once a week on individual work required.
MECHANICAL ENGINEERING MAJOR
First Semester

FRESHMAN YEAR
First Year Experience ........................................... LDRS 101 1 (2,0)*
Freshman Seminar ................................................. FSEM 101 3 (3,0)*
Freshman Linked Writing Intensive ............................. FSWI 101 3 (3,0)*
Analytic Geometry and Calculus I .............................. MATH 131 4 (4,0)
++Approved Science ............................................. CHEM 3 (3,0)
++Approved Science Laboratory .................................. CHEM 1 (0,2)
Introduction to Mechanical Engineering ....................... MECH 101 1 (0,2)
1st Year Basic ROTC ............................................. 101 1 (1,0)

SOPHOMORE YEAR
Sophomore Seminar in Principled Leadership ..................... LDRS 201/211 1 (1,0)
(211 may be taken either semester) ............................ LDRS 211 0 (0,1)
Technical Writing and Communication .......................... COMM 260 3 (3,0)
Statics ........................................................................ CIVL 202 3 (3,0)
Physics with Calculus II ........................................... PHYS 222 3 (3,0)
Physics with Calculus II Laboratory .............................. PHYS 272 1 (0,2)
Analytic Geometry and Calculus III ............................ MATH 231 4 (4,0)
Computer Applications w/Lab ..................................... MECH 325 3 (2,2)
2nd Year Basic ROTC ............................................... 201 2 (2,0)

JUNIOR YEAR
Junior Ethics Enrichment Experience ............................. LDRS 311 0 (1,0)
Engineering Materials w/Lab ...................................... MECH 304 3 (2,2)
Thermo-Fluid Systems I w/Lab .................................... MECH 310 3 (2,2)
Measurements & Instrumentation w/Lab ........................ MECH 330 3 (2,2)
Manufacturing Processes w/Lab ................................. MECH 340 3 (2,2)
Modeling & Analysis of Dynamic Systems I .................. MECH 350 3 (3,0)
Required Physical Education .................................... RPED 0 (0,1)
Leadership in Organizations ...................................... LDRS 371 3 (3,0)
or 1st Year Advanced ROTC (contract cadets)

SENIOR YEAR
Senior Leadership Integration Seminar ......................... LDRS 411 0 (1,0)
Strand History ......................................................... HISS 30x 3 (3,0)
Heat Transfer ............................................................. MECH 415 3 (3,0)
Mechatronics w/Lab ................................................ MECH 450 3 (2,2)
*ME Option I .............................................................. MECH 3 (3,0)
Senior Design I (Capstone) ....................................... MECH 481 3 (2,2)
or 2nd Year Advanced ROTC (contract cadets)

++CHEM 140/141 or CHEM 151/161

*Select two courses from one of five option areas to fulfill ME Option I and II.
MECHANICAL ENGINEERING MAJOR
Second Semester

FRESHMAN YEAR
Physics with Calculus I ....................... PHYS 221 3 (3,0)
Physics with Calculus I Laboratory ......... PHYS 271 1 (0,2)
Physical Fitness, Resiliency, and Wellness .. RPED 260 3 (3,0)
Analytic Geometry and Calculus II ......... MATH 132 4 (4,0)
General Biology for Engineers I .......... BIOL 150 3 (3,0)
General Biology for Engineers I Laboratory BIOL 151 1 (0,2)
Engineering Computer Applications .. MECH 102 2 (0,4)
1st Year Basic ROTC .......................... 102 1 (1,0)

SOPHOMORE YEAR
Strand English .................................... ENGS 30x 3 (3,0)
Dynamics .......................................... CIVL 203 3 (3,0)
Applied Engineering Mathematics I ........ MATH 234 4 (4,0)
Principles of Electrical Engineering w/Lab ELEC 208 3 (2,2)
Mechanics of Materials ...................... CIVL 304 3 (3,0)
Materials Laboratory ......................... CIVL 307 1 (0,2)
Required Physical Education ................. RPED 0 (0,1)
2nd Year Basic ROTC ..............................

JUNIOR YEAR
Thermo-Fluid Systems II w/Lab ............ MECH 311 3 (2,2)
Machine Design ................................. MECH 345 3 (3,0)
Modeling and Analysis and Dynamic Systems II w/Lab ............ MECH 351 3 (2,2)
Computational Methods in Engineering .... MECH 365 3 (3,0)
Mechanical Engineering System Design .... MECH 460 3 (3,0)
**Technical Elective ............................. 3 (3,0)
Project Management Career Skills .......... PMGT 401 3 (3,0)
or 1st Year Advanced ROTC (contract cadets)

SENIOR YEAR
Strand Social Science .......................... SCSS 30x 3 (3,0)
Strand Elective .................................. ELES 30x 3 (3,0)
***Mechanical Elective ....................... MECH 3 (3,0)
*ME Option II ................................... MECH 3 (3,0)
Senior Design II (Capstone) ................. MECH 482 3 (1,4)
or 2nd Year Advanced ROTC (contract cadets)

**Select PMGT 401 or CIVL, ELEC, MECH 300- or 400-level courses.
***Select a MECH 400-level course.
Department of Engineering Leadership and Program Management

Associate Professor: Greenburg
Assistant Professors: Plumblee, Vesali,

The Citadel Department of Engineering Leadership and Program Management offers one undergraduate course:

PMGT 401  Project Management Career Skills  Three Credit Hours
Prerequisite: Good academic standing, Juniors or Seniors

This course is designed to develop career enhancing professional skills through introduction to the lifecycle of Technical Project Management. This course provides the student with fundamental techniques and principles related to project management, following the national standards for project management. Specific areas of focus will be Project Integration, Planning, Scheduling, Quality, Risk, and Stakeholder Management. The essential role of project leadership will be emphasized.
SCHOOL
OF
HUMANITIES
AND
SOCIAL SCIENCES

Col. Brian Madison Jones, Dean

Department of Criminal Justice
Lt. Col. Matthew Zommer, Head

Department of English, Fine Arts,
and Communications
Col. Scott Lucas, Head

Department of History
Col. Joelle Neulander, Head

Department of Intelligence and Security Studies
Lt. Col. Larry A. Valero, Head

Department of Modern Languages, Literatures
and Cultures
Col. Guy David Toubiana, Head

Department of Political Science
Col. DuBose Kapeluck, Head

Department of Psychology
Col. Lloyd A. Taylor, Head
Department of Criminal Justice

Department Head: Zommer
Professors: Griffin, McNamara
Associate Professor: Zommer
Assistant Professors: Fenoff, Fisher, Hefner, Hill, Navarro

The major affords students an opportunity to obtain a broad liberal arts education that enriches their lives and provides preparation for graduate education and for useful and satisfying careers.

The course of study for students majoring in criminal justice prescribes a set of core courses to introduce the student to the discipline. In addition, students have the opportunity to select from two clusters of courses including advanced criminal justice coursework and courses in the related disciplines of political science and sociology that provide a broader liberal arts perspective. The major is designed to offer opportunities for criminal justice education at the college level which will provide capable personnel to meet the professional needs of the regional and national criminal justice community. The degree program offers a liberal arts approach which emphasizes social and natural sciences as well as humanities and professional activities. Students who major in criminal justice anticipate careers at the local, state, and national levels in such areas as law enforcement, juvenile justice, corrections, courts, probation and parole. The major also offers an excellent background for pre-law students through its courses in criminal law, evidence, courts, and criminal justice procedures and processes.

Other Programs and Courses: The Department offers three minors: Criminal Justice, Intelligence and Homeland Security, and International Criminal Justice. The Department also participates in the college's interdisciplinary minors in African-American Studies, Cybersecurity, International and Military Affairs, Law and Legal Studies, and Non-Western Studies. For a full description of these minor programs, please refer to the appropriate entries in this catalog: Department of History - African-American Studies; Department of Intelligence and Security Studies, Department of Mathematical Sciences, Department of Political Science - International and Military Affairs, Law and Legal Studies, and Non-Western Studies.

Major Requirements: B.A. in Criminal Justice

The criminal justice major consists of fifteen courses (45 credit hours) within the department. In addition, the major establishes certain distributional requirements outside the department, and it provides for six elective courses which students may use as they choose. The complete course of study is presented in the Courses of Study section of this catalog.

All undergraduate courses taken at The Citadel with a subject prefix of CRMJ and INTL will count towards the major GPA.
The criminal justice core curriculum consists of four courses (12 credit hours) to broadly introduce the student to the field. These core courses for the major are as follows:

**Required Courses**

- CRMJ 201 Introduction to Criminal Justice
- CRMJ 202 Criminology
- CRMJ 370 Police Systems and Practices
- CRMJ 380 Corrections

Beyond the core courses, each student majoring in criminal justice must choose 11 additional courses (33 credit hours) to be distributed among two clusters of courses, for a total of 45 credit hours. Courses have been clustered as follows: Cluster A (8 courses, 24 credit hours) includes advanced criminal justice coursework; Cluster B (3 courses, 9 credit hours) includes criminal justice-related/collateral courses. (General Electives, which may also be selected from our criminal justice offerings, may take the total higher at the student’s discretion.) The courses offered in each cluster are as follows:

**Cluster A** (Any 8 CRMJ 300- or 400-level advanced courses beyond the core requirement, 24 credit hours):

- CRMJ 330 Emergency Management
- CRMJ 331 Cyber Investigations
- CRMJ 332 Comparative Counter-Terrorism
- CRMJ 333 Immigration and Security
- CRMJ 334 Introduction to Crime Mapping
- CRMJ 335 Law and Society
- CRMJ 371 Criminal Law
- CRMJ 372 Critical Issues in Law Enforcement
- CRMJ 373 Criminal Evidence
- CRMJ 375 Criminal Justice Agency Administration
- CRMJ 381 Organized Crime
- CRMJ 382 Drugs and Crime
- CRMJ 383 Comparative Criminal Justice Systems
- CRMJ 384 International Crime
- CRMJ 385 Juvenile Delinquency
- CRMJ 386 Research Methods in Criminal Justice
- CRMJ 387 Criminal Investigation
- CRMJ 388 White Collar Crime
- CRMJ 389 Criminal Justice in Latin America
- CRMJ 390 Victimology
- CRMJ 391 Criminalistics
- CRMJ 392 Cyber Crime
- CRMJ 393 Homicide
- CRMJ 401 Cyber, Ethics, & Policy
- CRMJ 465 Special Topics in Criminal Justice
- CRMJ 470 Ethics
- CRMJ 471 Psychology of Crime
- CRMJ 472 Crime Prevention
Cluster B (3 courses, 9 credit hours): Choose three courses numbered 200 or above in any combination of the following disciplines: Anthropology, History, Philosophy, Political Science, Psychology, or Sociology. Additionally, CSCI 227 (Principles and Practices of Cybersecurity) and one Modern Language 301 course (FREN 301, GERM 301, or SPAN 301) may be taken as Cluster B courses.

Minor in Criminal Justice

Objectives:
This minor is designed to provide students with an introduction to criminal justice, including theories of criminality, procedures in the criminal justice process, and the principal actors and institutions which interact with each other.

Competencies, Knowledge, or Skills to be Achieved:
The minor introduces students to basic concepts and terms in criminal justice as well as to the theory and practice of the criminal justice process. In addition, the minor seeks to develop each student’s capabilities for critical thinking and systematic analysis in relation to contemporary criminal justice issues.

This minor is not approved for students majoring in Criminal Justice or for students majoring in Political Science whose subfield is Pre-Law and Legal Studies.

Structure of the Minor:
1. Required Courses
   CRMJ 201  Introduction to Criminal Justice
   CRMJ 202  Criminology
   CRMJ 370  Police Systems and Practices
   CRMJ 380  Corrections

2. Electives (choose one)
   CRMJ 330  Emergency Management
   CRMJ 331  Cyber Investigations
   CRMJ 332  Comparative Counter-Terrorism
   CRMJ 333  Immigration and Security
   CRMJ 334  Introduction to Crime Mapping
   CRMJ 335  Law and Society
   CRMJ 371  Criminal Law
   CRMJ 372  Critical Issues in Law Enforcement
   CRMJ 373  Criminal Evidence
   CRMJ 375  Criminal Justice Agency Administration
   CRMJ 381  Organized Crime
   CRMJ 382  Drugs and Crime
   CRMJ 383  Comparative Criminal Justice Systems
   CRMJ 384  International Crime
CRMJ 385  Juvenile Delinquency
CRMJ 386  Research Methods in Criminal Justice
CRMJ 387  Criminal Investigation
CRMJ 388  White Collar Crime
CRMJ 389  Criminal Justice in Latin America
CRMJ 390  Victimology
CRMJ 391  Criminalistics
CRMJ 392  Cyber Crime
CRMJ 393  Homicide
CRMJ 401  Cyber, Ethics, and Policy
CRMJ 465  Special Topics in Criminal Justice
CRMJ 470  Ethics
CRMJ 471  Psychology of Crime
CRMJ 472  Crime Prevention
CRMJ 473  Biology and Crime
CRMJ 498  Independent Study
CRMJ 499  Internship

Total Credit Hours Required: 15, of which at least 9 must be completed at The Citadel.

Minor in Intelligence and Homeland Security

Objectives:
This minor is designed to introduce students to the concepts of Intelligence and Homeland Security. This includes terrorism, intelligence collections systems, cyber security, local and national security, engineering, defense contracting, and emergency management.

Competencies, Knowledge, or Skills to be Achieved:
This minor seeks to develop each student's capabilities for critical thinking and systematic analysis and is designed to increase the student's knowledge of effective leadership for national security. It will enhance the knowledge and skills of students majoring in other subjects but interested in applying their discipline within the fields of homeland security and/or intelligence.

No students are excluded from pursuing this minor; however, students may not use any course toward satisfying both the minor requirement and a specific or area requirement in his or her major.

Structure of the Minor:
1. **Required Courses**
   - INTL 201  Introduction to Intelligence Studies
   - INTL 210  Homeland Security
   - INTL 310  Intelligence Collections and Programs

2. **Electives (choose two)**
   - BIOL 207  Bioterrorism
   - CHEM 309  Chemistry of War
   - CRMJ 330  Emergency Management
   - CRMJ 331  Cyber Investigations
   - CRMJ 332  Comparative Homeland Security
   - CRMJ 383  Comparative Criminal Justice
   - CSCI 227  Principles and Practices of Cybersecurity
INTL 301 Advanced Analytics I
INTL 302 Advanced Analytics II
INTL 311 US Intelligence Successes and Failures
INTL 312 America's Drone Campaign Since 9/11
INTL 401 Intelligence Support to Military Operations
INTL 402 The Military Instrument of Power
INTL 464 Intelligence Internship
INTL 465 Special Topics in Intelligence
PSCI 310 Domestic Terrorism
PSCI 332 National Security Policy
PSCI 342 International Terrorism
PSCI 433 US National Intelligence

Total Credit Hours Required: 15, of which at least 9 must be completed at The Citadel.

Minor in International Criminal Justice

Objectives:
This minor is designed to provide students with an introduction to international crime and criminal justice issues, including transnational crime, drug trafficking, and global terrorism, and the organizations, laws, and justice practices dedicated to the prevention and control of international criminal activity.

Competencies, Knowledge, or Skills to be Achieved:
The minor introduces the student to essential concepts in the study of crime and criminal justice in a global context. This includes the critical analysis of the theories, organizations, laws, procedures, and practices related to multi-national crime and criminal justice responses. Additionally, the minor seeks to develop the student’s ability to engage in critical thinking in relation to international crime and allied issues.

This minor is not approved for students majoring in Criminal Justice.

Structure of the Minor:
1. Required Courses
   CRMJ 382 Drugs and Crime
   CRMJ 383 Comparative Criminal Justice Systems
   CRMJ 384 International Crime
   PSCI 342 International Terrorism

2. Electives (choose one)
   CRMJ 333 Immigration and Security
   CRMJ 389 Criminal Justice in Latin America
   PSCI 331 International Law
   PSCI 343 Introduction to Non-Western Studies

Total Credit Hours Required: 15, of which at least 9 must be completed at The Citadel.
Minor in Law and Legal Studies

Objectives:
This minor is designed to introduce students in a systematic way to the American systems of civil and criminal justice; to provide an introduction to law and the legal system for students who are considering careers in law or criminal justice; and to provide an opportunity for students to undertake advanced law-related courses, grounded in a basic understanding of law and the legal system.

Competencies, Knowledge, or Skills to be Achieved:
The minor introduces students to legal reasoning, to case analysis, and to legal terms and citations as well as theoretical matters. Aside from an understanding of the nature of the legal process, the minor seeks to develop each student’s capabilities for critical thinking and systematic analysis.

This minor is not approved for students majoring in political science or criminal justice.

Structure of the Minor:
1. Required Courses
   CRMJ 201 Introduction to Criminal Justice
   PSCI 361 Law and Legal Process
   PSCI 462 Constitutional Law: Civil Rights and Liberties

2. Electives (choose two)
   PSCI 331 International Law
   PSCI 392 Political Theory
   PSCI 402 Politics of Bureaucracy
   PSCI 461 Issues in Contemporary Constitutional Law
   PSCI 463 Topics in Law and Legal Studies
   PSCI 499 Internship
   CRMJ 202 Criminology
   CRMJ 371 Criminal Law
   CRMJ 373 Criminal Evidence
   SOCI 201 Introduction to Sociology
   ENGL 411 Writing in the Professions

Total Credit Hours Required: 15, of which 9 must be completed at The Citadel

Criminal Justice Course Descriptions

CRMJ 201  Introduction to Criminal Justice  Three Credit Hours
An introduction to the American criminal justice system, including the history and philosophy of law enforcement, the nature of crime in the United States, an introduction to the substantive criminal law, the nature and theory of the criminal justice process from arrest to corrections, and the roles of the major actors in that process (police, prosecutors, defense lawyers, judges, and corrections personnel).
CRMJ 202  **Criminology**  Three Credit Hours
A study of the theories that seek to explain criminal behavior.

CRMJ 330  **Emergency Management**  Three Credit Hours
This course examines the history and perspectives of the field, hazards concepts and taxonomies, all-hazards approach, phases of emergency management, risk assessment, risk communication, emergency management functions, sustainable development, best practices, the model EOC, the written and implemented disaster plan, attaining the CEM, IAEM, and forging intra- and inter-governmental relationships.

CRMJ 331  **Cyber Investigations**  Three Credit Hours
This course will introduce the student to the best practices for seizing and securing digital evidence and the complicated legal issues surrounding digital evidence within the area of Cyber-Crime Investigation to include Cyber-Terrorism. The course will cover evidence and issues relative to file Meta-data for various types of electronic devices such as computer networks, cell phones, and electronic storage. Searches justified by exigent circumstances, search incident to arrest, and search warrant issues will also be covered. This course provides students interested in improving their investigative knowledge with an understanding of identifying, quantifying/qualifying, seizing, and protecting electronic information.

The investigative process is studied from basic theoretical concepts to the application of the basic elements for prosecution of criminal cases. Included are several studies of electronic crime scene investigation, white collar crime, organized crime, and cyber-terrorism. While this class focuses on cyber investigative practices and procedures in the United States, it offers a global perspective and will incorporate examples from different parts of the world.

CRMJ 332  **Comparative Counter-Terrorism**  Three Credit Hours
This course examines how democracies and non-democracies have responded to terrorism. Comparative policies addressed will include surveillance, detention of terrorist suspects, counter-terrorism laws and judicial proceedings, government oversight and transparency, and transnational law enforcement, military and intelligence cooperation. Nations analyzed for comparative purposes include (but are not limited to): Israel, United Kingdom, Australia, India, Germany, France, Russia, China, Indonesia and Canada. The objective of this course is to be able to make counter-terrorism policy recommendations for the United States based on the practice of other nations.

CRMJ 333  **Immigration and Security**  Three Credit Hours
Immigration is defined as crossing the border of one of the world’s 220 nation states with the intent to stay. Technological improvements in the last 50 years have given rise to massive outflows of people from sending countries and have tested the capacity of receiving countries to absorb immigrants. This course examines security issues such as terrorism that might stem from countries’ inability to control borders and the separate issue of societal security. Special emphasis is given to Mexican immigration to the US.
CRMJ 334  *Introduction to Crime Mapping*  Three Credit Hours
This course provides a broad introduction into the world of geographic information systems (GIS) and their applicability to the social sciences – particularly criminal justice and intelligence studies.

CRMJ 335  *Law & Society*  Three Credit Hours
This course is an introduction to the complex relationship between law and society. Students will learn the social and cultural meanings attached to law, how social relations constitute law (and vice versa), and how the law is interpreted and experienced by people in society. Specific topics include punishment, law and inequality, legal consciousness, law’s legitimacy, and the legal profession.

CRMJ 370  *Police Systems & Practices*  Three Credit Hours
An introduction to law enforcement in the United States, including a brief history of policing, contemporary trends in criminality, and current issues facing police administrators. Attention will also be given to the Fourth, Fifth, and Sixth Amendments to the U.S. Constitution and their implications for law enforcement.

CRMJ 371  *Criminal Law*  Three Credit Hours
This course examines the origin and general principles of criminal law, principles of criminal liability, and elements of offenses.

CRMJ 372  *Critical Issues in Law Enforcement*  Three Credit Hours
A critical analysis of contemporary issues in the law enforcement community, including the following: police stress, use of deadly force, police brutality, corruption, unionization, substance abuse by police officers, and other issues currently confronting law enforcement administrators and policymakers.

CRMJ 373  *Criminal Evidence*  Three Credit Hours
An introduction to the types of evidence, collection of evidence, the chain of custody, and procedures relating to its introduction into judicial proceedings. Special attention is given to Fourth Amendment constitutional issues.

CRMJ 375  *Criminal Justice Agency Administration*  Three Credit Hours
An introduction to criminal justice agency administration, including the following: the nature of criminal justice organizations, criminal justice personnel, group behavior in criminal justice organizations, and processes in criminal justice organizations.

CRMJ 380  *Corrections*  Three Credit Hours
An introduction to corrections, correctional theory, and correction policy through the in-depth study of key areas in corrections, including correctional history, systems, policy, treatment programs, prison life, community-based corrections, probation and parole, and juvenile corrections.
CRMJ 381  Organized Crime  Three Credit Hours
An examination and analysis of organized crime, of controversies surround-
ing the phenomenon, and of efforts aimed at its control. Attention will be given
to defining organized crime, to its development, and to various theories that
seek to explain its existence. Other topics include the activities that constitute
the business of organized crime, the relationship between organized crime and
corruption of governmental officials, the techniques used to control it, and the
policy implications inherent in responses to organized crime.

CRMJ 382  Drugs and Crime  Three Credit Hours
An examination of drug use as it relates to addiction, social problems,
crime, enforcement, and treatment. Issues involving domestic and international
drug supply, demand, trafficking, and interdiction are studied in the context of
American drug policy.

CRMJ 383  Comparative Criminal Justice Systems  Three Credit Hours
An examination of the ideology, structure, and justice process of various
criminal justice systems in the United States, Europe, Asia, Africa, the Middle
East, and Latin America. The comparative study involves analysis of diverse
social control, legal, police, court, correction, and juvenile systems from rep-
resentative justice approaches around the world, as well as normative values,
practices, and ethics of justice system practitioners.

CRMJ 384  International Crime  Three Credit Hours
A study of transnational crime, criminals, and criminal organizations in a
global context including an examination of international and national organi-
zations, laws, and justice practices responsible for controlling multi-national
criminal activity.

CRMJ 385  Juvenile Delinquency  Three Credit Hours
An introduction to delinquency, to the juvenile justice process from intake to
disposition, to trends in the treatment of juvenile offenders, and to juvenile justice
reform (decriminalization, diversion, deinstitutionalization, and due process).

CRMJ 386  Research Methods in Criminal Justice  Three Credit Hours
An introduction to research and to statistical methods, data bases, and com-
puter applications in relation to the various fields of criminal justice. Special
attention will be given to the problems associated with collection and analysis
of criminal justice data.

CRMJ 387  Criminal Investigation  Three Credit Hours
An examination of the criminal investigation process that combines forensic
applications with investigative procedures. Crime scene preservation, manage-
ment, evidence collection, and process are included in the examination of the
investigative process. Interrogation and interviewing techniques, as well as
physical evidence used to investigate specific types of offenses, are studied
emphasizing effective case prosecution.
CRMJ 388  **White Collar Crime**  Three Credit Hours
A study of “white collar” crime as a specific type of deviance. The course explores aspects of organizational, corporate, occupational, and governmental criminality and its detection, investigation, prosecution, and punishment.

CRMJ 389  **Criminal Justice in Latin America**  Three Credit Hours
Latin American countries have criminal justice institutions based on fundamental principles similar to those of US criminal justice institutions: due process, substantive criminal and criminal procedural law, basic organization into police, courts and corrections sectors, written constitutions, etc. Yet Latin American criminal justice institutions often in practice function very differently from those in the US. This course presents case studies on Latin American criminal justice institutions with topics including police reform in Bolivia; use of the National Guard in counter-narcotics in Puerto Rico; judicial police reform in Mexico; prosecutorial reform in Guatemala; and others.

CRMJ 390  **Victimology**  Three Credit Hours
The scientific study of the extent, nature, and causes of criminal victimization, its consequences for the persons involved and the reactions to such victimization by society, in particular the police and the criminal justice system. Additional areas of examination include history of victimology, legal recourse for crime victims, and informal methods of addressing the needs of victims.

CRMJ 391  **Criminalistics**  Three Credit Hours
The application of science to the investigation of crime. Designed to acquaint non-science majors with the philosophy and methodology of dealing with physical evidence in criminal investigation.

CRMJ 392  **Cyber Crime**  Three Credit Hours
An exploration of the current state of computer crime in the United States. The course traces the history of technological crime and identifies areas ripe for exploitation from technology savvy deviants. It also evaluates forensic practices and software in light of government legislation together with an analysis of emerging case law. The course also addresses guidelines for the development of computer forensic laboratories, the creation of computer crime task forces, and the search and seizure of electronic equipment.

CRMJ 393  **Homicide**  Three Credit Hours
This course is designed to teach students about homicide through a scholarly and sociological examination of the crime and those who commit such acts. Topics will range from traditional homicides to multiple victim homicides, including spree, mass, and serial killings. Special attention will be paid to the statistical, legal, and psychological elements of homicide in the United States.

CRMJ 401  **Cyber, Ethics, & Policy**  Three Credit Hours
This course explore the ethics, policies, and legal responses that affect behavior in cyberspace with an emphasis on nefarious behavior. Students will explore these topics both from a computer scientist perspective, with an emphasis on computers and networks, as well as a social science perspective, with an emphasis on human behavior in cyberspace.
CRMJ 465  *Special Topics in Criminal Justice*  Three Credit Hours
An advanced seminar designed to examine in-depth selected topics in criminal justice.

CRMJ 470  *Ethics*  Three Credit Hours
This course seeks to examine the criminal justice system through an ethical lens, to identify ethical issues in practice and in theory, to explore ethical dilemmas, and to suggest how ethical issues and dilemmas faced by criminal justice professionals might be resolved.

CRMJ 471  *Psychology of Crime*  Three Credit Hours
This course examines the role of psychology in contributing to our understanding of criminal behavior and criminal justice system processes. The course will review our current understanding of the criminal mind and the psychological explanations associated with the commission of violent crime, homicide, sexual assault, multiple murder, terrorism, property crime, and substance abuse. The course takes a close look at developmental risk factors and the biological origins of criminal behavior. Toward the end of the semester, the course discusses the use of psychological principles in police interrogations, the court process, and correctional psychology.

CRMJ 472  *Crime Prevention*  Three Credit Hours
This course will examine how to prevent crime from humanistic, structural, situational and environmental perspectives. A basic introduction to each of these schools of thought will be given. The main focus of this course will be examining the empirical research surrounding each method.

CRMJ 473  *Biology and Crime*  Three Credit Hours
The nature versus nurture debate has affected those who write about crime and its causes since the mid-19th century. Crime is defined as deviant behavior, and social scientists have alternately sought to identify the causes of individual criminality in biological or sociological factors. This course considers the relative contributions of biological and sociological factors to individual criminality in light of the findings of twins studies, adoption studies and other scholarship through the 21st century.

CRMJ 498  *Independent Study*  Three Credit Hours
An independent research project resulting in a formal paper, this study must be approved by the department head in consultation with an appropriate member of the faculty who will supervise the project. Virtually any aspect of criminal justice may be investigated. Especially recommended for those considering graduate or professional study.

CRMJ 499  *Internship*  Three Credit Hours
Prerequisite: Permission of Department Head.
Internships with government and other agencies are offered to combine academic training with professional experience.
Sociology Course Descriptions

SOCI 201  Introduction to Sociology  Three Credit Hours
The scientific study of principles and comparisons in society and culture as these relate to population and communities, behavior systems, group collectivity and structure, social change, and institutions.

SOCI 202  Social Problems  Three Credit Hours
Analysis of deviant behavior and those factors affecting the disorganization of small groups, complex organizations, and societies.

SOCI 301  Cults  Three Credit Hours
An examination and analysis of alternative religious ideologies and groups. Attention will be given to defining and explaining cults, and a historical analysis of the phenomenon will be undertaken. A sociological examination of their impact on social norms and ideologies will be discussed; government reactions to cults and cult activities will also be addressed.

SOCI 304  Minority Group Relations  Three Credit Hours
An examination of the substantive issues in the study of majority-minority group relations and social processes, and the cultural orientations which are associated with these issues.

SOCI 433  Special Topics in Sociology  Three Credit Hours
Selected special topics or problems in the general area of sociology and social problems; offered periodically as the special interests of faculty and students permit.

SOCI 498  Independent Study  Three Credit Hours
An independent study project resulting in a formal paper; this study must be approved by the department head in consultation with an appropriate member of the Sociology faculty who will supervise the project. Especially recommended for those considering graduate or professional study.
An introduction to archaeology which looks at kinds of prehistoric data and the methods used to obtain and interpret it. Attention will center upon the lives of hunters, food producers, and early community settlements.
**CRIMINAL JUSTICE MAJOR**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LDRS 101 First Year Experience</td>
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<tr>
<td><strong>Freshman Math</strong></td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>2</td>
</tr>
<tr>
<td>General Elective</td>
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<td>General Elective</td>
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**Sophomore Year**

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<tr>
<th>Course</th>
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<tr>
<td>LDRS 201 Sophomore Seminar in Principled Leadership</td>
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<tr>
<td>LDRS 211 Introduction to Criminal Justice</td>
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<tr>
<td>CRMJ 201 Introduction to Criminal Justice</td>
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<tr>
<td>ENGS 30x Strand English</td>
<td>3</td>
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<tr>
<td>HIST 3 U.S. History Elective</td>
<td>3</td>
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<td>General Elective</td>
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<td>General Elective</td>
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**Junior Year**

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<tr>
<td>LDRS 311 Junior Ethics Enrichment Experience</td>
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<tr>
<td>LDRS 371 Leadership in Organizations</td>
<td>3</td>
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<tr>
<td>CRMJ 370 Police Systems and Practices</td>
<td>3</td>
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<tr>
<td>HISS 30x Strand History</td>
<td>3</td>
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<td>Cluster A Elective</td>
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<td>Cluster A Elective</td>
<td>3</td>
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<tr>
<td>Cluster B Elective</td>
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<tr>
<td>RPED 0 Required Physical Education</td>
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**Senior Year**

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<tr>
<td>LDRS 411 Senior Leadership Integration Seminar</td>
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<td>ELES 30x Strand Elective</td>
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<td>ELES 30x Strand Elective</td>
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<tr>
<td>General Elective</td>
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<td>RPED 0 Required Physical Education</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
## CRIMINAL JUSTICE MAJOR
### Second Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<td>Freshman Seminar</td>
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<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3 (3,0)</td>
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<tr>
<td><strong>Freshman Science</strong></td>
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</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>American National Government</td>
<td>PSCI 102</td>
<td>3 (3,0)</td>
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<tr>
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<td>1 (1,0)</td>
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**SOPHOMORE YEAR**

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<tr>
<td>Criminology</td>
<td>CRMJ 202</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Communications in Business</td>
<td>COMM 216</td>
<td>3 (3,0)</td>
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<tr>
<td>U.S. History Elective</td>
<td>HIST</td>
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</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
<td>3 (3,0)</td>
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**JUNIOR YEAR**

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<tr>
<td>Corrections</td>
<td>CRMJ 380</td>
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<td>Cluster A Elective</td>
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<tr>
<td>Cluster A Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>Cluster B Elective</td>
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<td>General Elective</td>
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**SENIOR YEAR**

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<td>General Education Capstone</td>
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<td>Cluster A Elective</td>
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<td>Cluster A Elective</td>
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<tr>
<td>Cluster B Elective</td>
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<td>General Elective</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of English, Fine Arts, and Communications

Department Head: Lucas
Professors: Allen, Heuston, Horan, Hutchisson, Livingston, Lucas, Maxwell, Thompson
Associate Professors: Frame, Hendriks, Pilhuj
Assistant Professors: Eggleston
Senior Instructors: Adair, Silverman
Visiting Instructors: Free, Sargent, Spring

Courses in English composition and literature are required for all students, regardless of their major fields of study.

The English Major

The English major is designed for students seeking a broad education suitable for careers in such areas as law, business, the ministry, or the armed forces. As a pre-professional degree, English challenges students to think critically and to improve their communication skills.

Course offerings cover the range of literature written in English, from the Middle Ages to our own times. The department also offers classes in creative writing, art, music, and philosophy. In preparing for careers after graduation, every student majoring in English completes at least one advanced writing class and at least one internship in professional communications.

The English major consists of twelve courses (36 credit hours). With a course of studies featuring thirteen general electives, students majoring in English have the flexibility to complete a minor in a complementary field.

All undergraduate courses taken at The Citadel with a subject prefix of COMM and ENGL will count towards the major GPA.

The student majoring in English is required to take the following courses:
1. English 203 (Masterpieces of British Literature),
2. English 211 (Mythology) or 212 (The Bible as Literature)
3. English 215 (Masterpieces of American Literature)
4. English 303 or 304 (Shakespeare I or II)
5. English 402 or 403 (Senior Seminar I or II)
6. English 411 (Legal Writing) or Communications 413 (Advanced Composition)
7. Communications 499 (Internship in Professional Communications)

Five additional upper-level English courses (numbered 301 and above).
Minor in English

Objectives:
Through the study of seminal literature and the practice of both academic and pre-professional writing, the minor in English hones the skills that people in every discipline use daily when they read, write, converse, and assert their independent ideas and opinions through these self-actualizing activities. Literature illustrates the rich interrelatedness of cultural, historical, economic, political, scientific, philosophical, and religious concerns, while encouraging individual creativity and serving as a model for cogent, graceful writing. The minor in English thus complements academic work in almost every other field, positioning the student for success in either civilian or military life.

Competencies, Knowledge, and Skills to be Achieved:
The English minor trains students to read analytically, synthesize information quickly, think critically, and write persuasively. These crucial transferable skills equip students to navigate an ever-changing and frequently uncertain job market. They also provide a foundation for graduate work in the humanities and for a range of pre-professional advanced degrees in fields such as business, divinity, education, law, library science, museum work, public policy, and social work. The minor in English also exposes students to a range of important literary texts, the canon of imaginative writing often called “the best that has been thought and said in the world.”

Through the close analysis of literature, the minor also enables students to generate original arguments and ideas, to appreciate the nuanced range of perspectives on cultural and socioeconomic issues, to evaluate competing viewpoints, and to value diversity in an increasingly global society.

Structure of the Minor:
1. Required Courses
   One of the following foundational courses (3 credit hours):
   - ENGL 201
   - ENGL 202
   - ENGL 203
   - ENGL 215

   One of the following pre-professional writing courses:
   - COMM 207
   - COMM 216
   - COMM 260
   - COMM 413
   - ENGL 411
   Or another approved pre-professional writing course.
2. **Electives**

Any three classes chosen from the following range of courses (if not already taken as a Required Course)

ENGL 301-375  
ENGL 411-427  
COMM 301-498

*Total Credit Hours Required:* 15, at least 9 of which must be completed at The Citadel.

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**Minor in Fine Arts**

**Objectives:**

The minor in Fine Arts is intended to deepen an appreciation for and encourage a lifelong engagement in the fine arts, including painting, sculpture, photography, music, film, drama, and creative writing. As participation in fine arts courses, both in practice and in theory, stimulates creative thinking, such as intelligence, medicine, and law, and develops problem solving skills that are applicable to other areas of study, this minor is meant to round out The Citadel experience. Students are also encouraged to engage with the broader artistic community of Charleston through participation in events, internships, exhibitions, and performances.

**Knowledge and/or Skills to be Achieved:**

Through the foundation courses in art and music, the student will gain a broad understanding of the cultural and historical significance of the fine arts as well as applied knowledge of a variety of artistic mediums. Further courses develop the student’s interest in more specific areas, such as musical performance, emphasis on a particular visual medium, or internships in local arts organizations.

*This minor may not be approved for Education or English Majors unless required courses for their major do no overlap more than two classes with the minor requirements.*

**Structure of the Minor:**

1. **Choose two** introductory courses (6 credit hours)
   - FNAR 205 Music Appreciation
   - FNAR 206 Art Appreciation
   - FNAR 207 Art History
   - ENGL 209 Introduction to Film
   - FNAR 250 Special Topics
   - BAND 101/102/201/201 Band (sequence counts as 3 credits)
   - ENGL 208 Special Topics (where appropriate)
   - ENGL 209 Introduction to Film
   - ENGL 221 Introduction to Creative Writing
   - ENGL 222 Special Topics in Film Studies

2. **Choose three** additional elective courses, including at least two at or above the 300 level. (9 credit hours)
   - Introductory courses as listed above
   - BAND 301/302/401/402 (this total sequence for Band counts as 3 credits)
   - FNAR 304 Drawing
   - FNAR 305 Painting
   - FNAR 306 Photography
FNAR 307 Digital Forensic Photography
FNAR 308 Graphic Design
FNAR 309 Photoshop
FNAR 350 Advanced Special Topics in Fine Arts
ENGL 303 Shakespeare I
ENGL 304 Shakespeare II
ENGL 322 English Drama to 1642
ENGL 351 20th Century American Drama
ENGL 368 20th Century Drama
ENGL 372 Film Studies
ENGL 373 Special Topics in Film Studies
ENGL 375 Special Topics (where appropriate)
ENGL 401 Independent Study
ENGL 426 Creative Writing: Fiction
ENGL 427 Creative Writing: Poetry
COMM 499 Internship

*Courses related to the Fine Arts in other departments may be considered and approved by the English, Fine Arts, and Communications Department Chair.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel or in a Citadel Study Abroad Program

For further information, please contact the Director of Fine Arts or the Department Chair of English, Fine Arts, and Communications.

Minor in Philosophy

The minor in Philosophy, consisting of four courses in Philosophy and a fifth course drawn from a designated group of related courses in various disciplines, is designed to give students (1) an introduction to the history of philosophy and major issues in philosophy (accomplished in PHIL 201), (2) a grounding in major approaches to critical thinking (PHIL 202), (3) advanced study in selected areas of philosophy (provided by at least two Philosophy courses), and (4) the collateral connection provided by at least one related course in another discipline.

Structure of the Minor:
To earn a minor in Philosophy, a student must complete fifteen (15) credit hours of course work, distributed as follows:

I. Required Basic Courses. Both courses must be completed; total of six hours credit;
   a. PHIL 201 Introduction to Philosophy
   b. PHIL 202 Reasoning and Critical Thinking (Logic)

II. Philosophy Electives. Any two of the following four courses must be completed; total of six hours credit:
   a. PHIL 290 Ethics
   b. PHIL 302 Philosophy of Religion
   c. PHIL 409 Seminar in Philosophical Topics
   d. PHIL 410 Humanity in Crisis: The Problems of Good and Evil
III. Upper-division Electives. One of the following courses must be completed; total of three hours credit:

a. BLAW 301 Legal & Ethical Environment of Business
b. ENGL 371 Literary Paradigms of Leadership
c. ENGL 426 Creative Writing: Fiction
d. ENGL 427 Creative Writing: Poetry
e. HIST 321 The Middle Ages
f. HIST 322 Renaissance and Reformation
g. HIST 329 The Ancient Greeks
h. HIST 361 Early Islamic History
i. HIST 362 Modern Middle East
j. LING 300 Introduction to Linguistics
k. MLNG 410 European Literary Movements, 12th Century to 1789
l. MLNG 411 European Literary Movements, 1789-Present
m. PSCI 304 American Political Thought
n. PSCI 348 Theories of Peace and War
o. PSCI 371 Leadership in Politics
p. PSCI 392 Political Theory
q. PSYC 305 Social Psychology
r. PSYC 306 Theories of Personality
s. PSYC 403 Psychology of Learning
t. PSYC 405 History and Systems of Psychology
u. A special topics course or independent study (any department) approved by the Department Head of English, Fine Arts, and Communications as suitable for the Philosophy Minor.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

For further information, please contact the Department of English, Fine Arts, and Communications.

English Course Descriptions

ENGL 101 & 102 Composition and Literature I & II Three Credit Hours Each Semester

The development of the basic skills of writing, reading, and analysis through the study of literary types. ENGL 101: Reading and evaluating essays; writing paragraphs and essays, including a research paper. ENGL 102: Writing essays on topics pertaining to selected works of literature, film, and related imaginative genres.

International students whose native language is not English may be placed in a special English as a Second Language (ESL) section of ENGL 101. Depending on the individual ESL student’s performance in English, he or she may be required to take a second class, ENGL 111.
ENGL 111  English Composition for International Students  Three Credit Hours

This course, a continuation of the English as a Second Language ENGL 101, provides additional practice in English grammar and vocabulary while developing the student’s skills in English composition and reading comprehension. May be taken for General Elective credit only.

ENGL 201 & ENGL 202  Major British Writers I & II  Three Credit Hours  Each Semester

Prerequisites: FSWI 101

Study in depth of major writers in British literature from the medieval period to the present. ENGL 201: Beowulf, Chaucer, Shakespeare, Milton, Pope, and Swift. ENGL 202: Wordsworth, Keats, Tennyson, Browning, Hardy, Yeats, and Eliot. Several themes assigned on the literature studied.

ENGL 203  Masterpieces of British Literature  Three Credit Hours

This course is a survey of English literature from the earliest times to the present. Students will read representative works by some of the Britain's best-known writers, including Chaucer, Shakespeare, Milton, Wordsworth, Bronte, Yeats, and Eliot.

ENGL 208  Humanities Special Topic  Three Credit Hours

Prerequisite: FSWI 101

A study of a particular aspect of literature, communications, or a related area.

ENGL 209  Introduction to Film  Three Credit Hours

Prerequisite: FSWI 101

An introduction to the aesthetics and techniques of cinematic art.

ENGL 210  The Literature of War  Three Credit Hours

Prerequisite: FSWI 101

A study of selected literature about war, to include the historical background of the literature and ways in which it reflects the attitudes of the authors and of the societies which produced it. The approach of the course will be general and is intended to appeal to a wide audience of students.

ENGL 211  Mythology  Three Credit Hours

A study of mythology including Greco-Roman, Northern European, Native American and Eastern myths. A discussion of the leading theories concerning the origins, development, and significance of myths together with the allusive and allegorical use of myth in later literature and art.

ENGL 212  The Bible as Literature  Three Credit Hours

A study of selected portions of the Old and New Testaments as literary masterpieces and cultural monuments, with some attention to the major systems of interpretation.
ENGL 215  *Masterpieces of American Literature*  Three Credit Hours
A survey of representative works of American literature from its beginning to the present, with some consideration of principal literary developments and historical issues. Authors may include Franklin, Emerson, Melville, Dickinson, Twain, James, Hemingway, Faulkner, O’Neill, Frost, Stevens, Hurston, O’Connor, and Rich.

ENGL 216  *Literary Theory*  Three Credit Hours
Prerequisite: FSWI 101
A study of literary criticism from ancient Greece to the present, emphasizing the relation of the critical tradition to contemporary critical approaches to literature. Special attention to semiotic theory as it relates to the influence of language and visual images on thinking, composing, and action.

ENGL 218  *Masterpieces of World Literature I*  Three Credit Hours
Prerequisite: FSWI 101
Study of works of world literature to 1650, both western and non-western, from major cultural centers such as ancient Greece, Rome, and India; Medieval Europe; Tang China; and Heian Japan. Readings will include epics, plays, and lyric poems.

ENGL 219  *Masterpieces of World Literature II*  Three Credit Hours
Prerequisite: FSWI 101
A survey of world literature (in translation) from 1650 to the present, with emphasis on both non-English European works and works written outside the Western tradition. The periods and topics covered will include the Enlightenment of the 17th and 18th centuries, European Romanticism and Realism of the 19th century, and developments in the literatures of Africa, India, Japan, China, and South America in the 20th century. Readings will include drama, poetry, and prose fiction.

ENGL 221  *Introduction to Creative Writing*  Three Credit Hours
Prerequisite: FSWI 101
An introduction to a wide variety of creative writing forms, including the writing of short stories, screenwriting, memoir, poetry, and drama.

ENGL 222  *Special Topics in Film Studies*  Three Credit Hours
Prerequisite: FSWI 101
A study of a particular aspect or genre of film.

ENGL 301  *Chaucer*  Three Credit Hours
Prerequisite: FSWI 101
An introduction to Chaucer’s language, art, and cultural milieu through readings of *The Canterbury Tales, Troilus and Criseyde*, and some of the shorter poems.
ENGL 303 & ENGL 304  Shakespeare I & II  Three Credit Hours
Each Semester
Prerequisite: FSWI 101
Each course will present students with different but representative selections from the comedies, histories, and tragedies. Since the courses will not overlap, students may take both.

ENGL 305  Milton  Three Credit Hours
Prerequisite: FSWI 101
A study of Paradise Lost, Samson Agonistes, and representative shorter works, with special attention to their philosophical content.

ENGL 310  Literature of Medieval England  Three Credit Hours
Prerequisite: FSWI 101
A study of the most important literature composed during the Old English and Middle English periods, exclusive of Chaucer. Some works will be read in the original languages, some in translation.

ENGL 320  Sixteenth Century Poetry and Prose  Three Credit Hours
Prerequisite: FSWI 101
A study of the principal English writers of the period, with particular emphasis on the prominent aspects of the Renaissance spirit.

ENGL 321  Seventeenth Century Poetry and Prose  Three Credit Hours
Prerequisite: FSWI 101
A study of representative prose prior to the Restoration and of representative poetry, including that of Ben Jonson and his “sons,” and of John Donne and the metaphysical poets.

ENGL 322  English Drama to 1642  Three Credit Hours
Prerequisite: FSWI 101
A study of representative plays, exclusive of Shakespeare’s, from the medieval beginnings of English drama to the closing of the theatres in 1642.

ENGL 323  Restoration and Early Eighteenth Century Literature  Three Credit Hours
Prerequisite: FSWI 101
A study of the new spirit of English prose, poetry, and drama which came with the Restoration. Some emphasis will be given to the philosophical, religious, political, and social backgrounds.

ENGL 324  The Age of Johnson  Three Credit Hours
Prerequisite: FSWI 101
A study of the decline of Neoclassicism and the movement toward Romanticism in the poetry, fiction, drama, and nonfiction prose of the age.
ENGL 325  The Romantic Movement  Three Credit Hours
Prerequisite: FSWI 101
A study of the chief features which culminated in the Romanticism of the nineteenth century, with special emphasis on the five major poets: Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENGL 326  Victorian Poetry and Prose  Three Credit Hours
Prerequisite: FSWI 101
A study of the period from 1830 to 1900, showing the effects of the Industrial and Scientific Revolutions on traditional attitudes toward art and life through the works of the major writers of the period, with emphasis upon the poetry of Tennyson, Browning, Arnold, and Hopkins; and upon the prose of Carlyle, Arnold, Mill, and Ruskin.

ENGL 327  Nineteenth Century British Novel  Three Credit Hours
Prerequisite: FSWI 101
A study of selected works of major nineteenth century British novelists such as Austen, Scott, the Brontes, Thackeray, Dickens, Eliot, Trollope, and Hardy.

ENGL 332  Twentieth Century British Fiction  Three Credit Hours
Prerequisite: FSWI 101
A course in the reading and critical analysis of selected British novels by writers like Conrad, Joyce, Lawrence, Forster, Woolf, and Waugh.

ENGL 336  Twentieth Century British Poetry  Three Credit Hours
Prerequisite: FSWI 101
A study of British poets from the 1890s until the present, with an emphasis on the work of Hopkins, Hardy, the poets of the First World War, Yeats, Thomas, and Auden.

ENGL 338  African American Literature to 1940  Three Credit Hours
Prerequisite: FSWI 101
A survey of African American poetry, drama, fiction, and nonfiction from the beginnings of the literary tradition through 1940, with emphasis on such genres and movements as the slave narrative, dialect literature, racial polemic, and the Harlem Renaissance. Authors studied will include Wheatley, Douglass, Harper, Du Bois, Chesnutt, Larsen, Hurston, and Hughes.

ENGL 339  African American Literature 1940-Present  Three Credit Hours
Prerequisite: FSWI 101
A survey of African American poetry, drama, fiction, and nonfiction from 1940 to the present, with emphasis on significant literary developments such as the Protest Movement, the Black Arts Movement, Neorealism, and the New Black Aesthetic. Authors studied may include Wright, Ellison, Hansberry, Angelou, Walker, Wilson, Morrison, and Shange.
ENGL 340  *Southern Literature to 1900*  Three Credit Hours  
Prerequisite: FSWI 101  
A survey of the literary achievement of Southern writers from 1710 to 1900.

ENGL 341  *Early American Literature*  Three Credit Hours  
Prerequisite: FSWI 101  
A study of American writings from the time of the first settlement through the colonial period, ending with early nationalism.

ENGL 342  *American Romantic Literature*  Three Credit Hours  
Prerequisite: FSWI 101  
A study of American authors from the period of the establishment of a national literature. The course includes such writers as Hawthorne, Poe, Melville, Emerson, Thoreau, and Whitman.

ENGL 343  *Literature of American Realism*  Three Credit Hours  
Prerequisite: FSWI 101  
A study of American literature following the Civil War and up to the twentieth century. The course includes local colorists and such writers as Dickinson, Twain, James, and Crane.

ENGL 346  *Twentieth Century American Fiction*  Three Credit Hours  
Prerequisite: FSWI 101  
A study of major American fiction since 1900. Authors studied may include Fitzgerald, Hemingway, Faulkner, Stein, Mailer, Styron, Pynchon, and Morrison.

ENGL 348  *Twentieth Century Southern Literature*  Three Credit Hours  
Prerequisite: FSWI 101  
A study of the most important Southern authors of the twentieth century, with emphasis on significant regional topics such as the Fugitive and Agrarian Movements, the development of the Southern Tradition, and the Southern Gothic School.

ENGL 350  *Twentieth Century American Poetry*  Three Credit Hours  
Prerequisite: FSWI 101  
A survey of American poetry since 1900. The course will cover such poets as Robinson, Frost, Eliot, Stevens, Pound, Williams, Hughes, Moore, Bishop, Ginsberg, Rich, and Dove.

ENGL 351  *Twentieth Century American Drama*  Three Credit Hours  
Prerequisite: FSWI 101  
A survey of major dramatists and dramatic developments of the American Theatre since 1900. The course may cover such playwrights as Belasco, O’Neill, Miller, Williams, Albee, Hansberry, Shepard, Wilson, and Mamet.

ENGL 360, ENGL 362, & ENGL 364  *A Survey of World Literature I, II, & III*  Each Semester  
Prerequisite: FSWI 101  
Masterpieces of world literature in translation, including non-Western literature, with special attention to the philosophical content and development of literary forms. ENGL 360: From the *Rig Veda* to Dante. ENGL 362: From Boccaccio through the nineteenth century. ENGL 364: Twentieth century.
ENGL 368  Twentieth Century Drama  Three Credit Hours
Prerequisite: FSWI 101
Representative plays of the twentieth century, with emphasis on European and non-Western works.

ENGL 370  Adolescent Literature  Three Credit Hours
Prerequisite: FSWI 101
A study of literature for the adolescent, including methods of introducing the major literary genres to the secondary-school student.

ENGL 371  Literary Paradigms of Leadership  Three Credit Hours
Prerequisite: FSWI 101
A study of literary texts from various times and cultures that present models of leadership, both good and bad, and raise issues about leadership characteristics and responsibilities.

ENGL 372  Film Studies  Three Credit Hours
Prerequisite: FSWI 101
An in-depth analysis of cinematic art, emphasizing feature films. Films and issues studied will include major works of American cinema and world cinema, newer critically-acclaimed films, the history of film, the social significance of film, and contemporary issues related to film.

ENGL 373  Advanced Special Topics in Film Studies  Three Credit Hours
An in-depth analysis of a special topic or genre of film. Films and issues studied may include major works of American Cinema and world cinema, newer critically-acclaimed films, the history of film, the social significance of film, and/or contemporary issues, all as related to the specified topic or genre.

ENGL 375  Special Topic in Literature or Language  Three Credit Hours
Prerequisite: FSWI 101
A study of an individual author, topic, or problem in literature or language.

ENGL 401  Independent Study  Three Credit Hours
Prerequisite: Approval of the department head.
Open to senior English majors with a GPA of 3.0 or better.
A tutorial course individually designed to meet the needs or special interests of one or a few students. Assignments, tutorial sessions, tests, and papers will be assigned by the professor in consultation with individual students.

ENGL 402 & ENGL 403  Senior Seminar I & II  Three Credit Hours
Each Semester
Open to senior English majors.
A seminar on an individual author, topic, or problem, as suggested by members of the faculty or by groups of English majors and subject to the approval of the department head in consultation with the instructor. The principal requirement of the course will be a long research paper that will test the student's ability effectively to research a topic and construct a complex argument based on that research.
ENGL 411  **Legal Writing**  Three Credit Hours
Prerequisite: FSWI 101
Study and practice of effective writing techniques and terminology pertinent to the legal profession.

ENGL 412  **Rhetoric of Law**  Three Credit Hours
Prerequisite: FSWI 101
Study and practice of principles of oral argument applicable to the legal profession.

ENGL 414  **Modern English Grammar**  Three Credit Hours
Prerequisite: FSWI 101
An intensive study of the syntax of Present Day English. The course also includes a review of traditional grammar, focusing primarily on the parts of speech. Special attention is given to linguistic theory, particularly regarding the acquisition of language.

ENGL 415  **History of the English Language**  Three Credit Hours
Prerequisite: FSWI 101
A historical survey of the syntactic and phonological features of Old, Middle, Early Modern, and Present Day English. Special attention is given to the varieties of American English, particularly African American Vernacular English.

ENGL 426  **Creative Writing: Fiction**  Three Credit Hours
Prerequisite: FSWI 101
A study of the craft of fiction and its most important elements. Students will consider appropriate models and, in a workshop setting, develop their own skills. Requirements include completion of a substantial piece of fiction.

ENGL 427  **Creative Writing: Poetry**  Three Credit Hours
Prerequisite: FSWI 101
A study of the craft of poetry, including the examination of appropriate models and theories, and, in a workshop setting, directed practice in writing. Requirements include completion of six to eight well-crafted poems.

**Fine Arts Course Descriptions**

FNAR 205  **Music Appreciation**  Three Credit Hours
A non-technical course to enhance the student’s understanding and enjoyment of music by a twofold approach: first, to gain fundamental knowledge of style, content, and form of the most outstanding works of the great composers; and second, to study the evolution of musical art up to the present time; particular emphasis is placed upon the latter.
FNAR 206  *Art Appreciation*  Three Credit Hours
An introduction to the fundamental elements of art with the intent to gain an understanding of the relevance and influence of visual art in culture. Course includes a wide range of art-making experiences and field trips to local art institutions.

FNAR 207  *Survey of Art History*  Three Credit Hours
A survey of the history of Western art from pre-history to the modern day. The techniques and content of a broad range of painting, sculpture, architecture, and other artistic mediums will be examined within the context of the cultural environment in which they were created.

FNAR 209  *Music Theory I*  Three Credit Hours
Study of the components of musical composition; construction of major and minor scales, identification of harmonic and melodic intervals, construction of primary triads and their inversions, transposition of band instruments, sight singing and ear training.

FNAR 210  *Music Theory II*  Prerequisite: FNAR 209  Three Credit Hours
Continuation of Music Theory I. The structure and use of all diatonic chords and their inversions, identification of nonharmonic tones, introduction to modulations, sight singing and ear training.

FNAR 250  *Special Topics in Fine Arts*  Three Credit Hours
Offerings may include art-related topics such as Theater Appreciation, European Art, and Architecture; as well as music-related topics including studies of individual composers.

FNAR 304  *Drawing*  Three Credit Hours
An introduction to the traditional principles and techniques of drawing through exploration of line, shape, perspective, proportion, volume, and composition.

FNAR 305  *Painting*  Three Credit Hours
An introduction to the painting process through the fundamentals of color, value, shape, contrast, blending, and glazing using acrylic paint and a variety of brushes and surfaces.

FNAR 306  *Photography*  Three Credit Hours
An exploration of the fundamental techniques of digital photography through critical examination of historical examples and hands-on experience in a variety of photographic genres.

FNAR 307  *Digital Forensic Photography*  Three Credit Hours
The study and application of photographic methods to record material evidence of a crime/accident scene during investigative actions for the purpose of evidence in court in both military and civilian settings. Includes instruction in digital camera operation, crime scene sketching, photographic record keeping, and legal testimonial preparation.
FNAR 308  *Graphic Design*  Three Credit Hours
The exploration of commercial design principles and visual communication skills through interactive projects that communicate a brand message and visual identity using design software.

FNAR 309  *Photoshop*  Three Credit Hours
An introduction to the application of Adobe Photoshop, the industry standard for creating and editing visual content through interactive projects.

FNAR 350  *Advanced Special Topics in Fine Arts*  Three Credit Hours
Advanced study of special topics in the fine arts, such as Scientific Illustration, Photo Journalism, Acting, and Wildlife Drawing.

**Communication Course Descriptions**

COMM 205  *Informative Speaking*  Three Credit Hours
Prerequisite: FSWI 101
The general principles of speech composition and speech presentation; practice in expository speaking. Includes the use of computer technology to create effective visual aids.

COMM 206  *Persuasive Speaking*  Three Credit Hours
Prerequisite: FSWI 101
The general principles of rhetoric; practice in speaking to secure a desired reaction from an audience. Includes the use of computer technology to create effective visual aids.

COMM 207  *Introduction to Journalism*  Three Credit Hours
Prerequisite: FSWI 101
An introduction to print journalism with emphasis on writing news and feature articles.

COMM 208  *Special Topics in Communications*  Three Credit Hours
Prerequisite: FSWI 101
A study of a particular aspect of communications, speech, or a related topic.

COMM 216  *Communications in Business*  Three Credit Hours
Prerequisite: FSWI 101
Required of sophomores seeking a degree in the School of Business.
A study of written and oral communication in organizations. Emphasis is given to communication theory including communication flows and barriers, as well as the psychology of communicating good, neutral, negative, and persuasive messages. The course also covers career planning, delivering professional presentations, electronic communications, and writing formal reports.
COMM 260  *Technical Writing and Communication*  Three Credit Hours
Prerequisite: FSWI 101
Required of sophomores seeking a degree in the School of Engineering.
This course develops students' abilities to research, evaluate, and produce formal, documented projects that demonstrate awareness and mastery of technical and professional writing conventions.

COMM 275  *Advanced Special Topics in Communications*  Three Credit Hours
Prerequisite: FSWI 101
Advanced study of a particular topic in communications, language theory, digital humanities, or a related field.

COMM 413  *Advanced Composition*  Three Credit Hours
Prerequisite: FSWI 101
The study and practice of advanced writing techniques, including use of computer technology for web publishing.

COMM 499  *Internship in Professional Communication*  Three Credit Hours
Prerequisite: Permission of Instructor
A practicum to apply previously acquired skills to professional experience. Students work with a department faculty member and under the supervision of professionals in business, communications, law, religion, health, or other field. Student interns must provide their own transportation and must adhere to all college policies regarding internships.

**Philosophy Course Descriptions**

PHIL 201  *Introduction to Philosophy*  Three Credit Hours
An inquiry into the nature of philosophic thinking, especially with regard to the problem of knowledge and the nature of reality. Study of the classical origins of Western philosophy, as well as more recent developments.

PHIL 202  *Reasoning and Critical Thinking (Logic)*  Three Credit Hours
A study of the principles and methods that distinguish valid from invalid arguments. After a brief examination of what an argument is, the concepts of validity and invalidity are introduced, and a systematic study of the principles governing the application of these concepts to arguments is undertaken. An extensive treatment of traditional Aristotelian logic (the syllogism, rules of validity, immediate inference, etc.) is supplemented by an introduction to principles of modern symbolic logic.

PHIL 290  *Ethics*  Three Credit Hours
A study of the nature of morality and moral reasoning through critical analyses of the writings of classical and contemporary thinkers on this subject. Problems regarding the role of reason in human conduct will be examined in detail, with emphasis upon the nature of the good life, happiness, moral obligation and duty, right and wrong, and the nature of moral language.
PHIL 302  Philosophy of Religion  Three Credit Hours
An analysis of what religion is, the role it plays in human life, and how it differs from such other areas of life as ethics and science. The arguments for and against the existence of God are examined, as is the appeal to religious experience (e.g., mysticism). Criticism of religion (e.g., that of Freud and Marx) is considered, as are the roles of faith and revelation and the questions of evil and immortality.

PHIL 401  Independent Study in Philosophy  Three Credit Hours
Prerequisite: Approval of the department head.
A tutorial course individually designed to meet the needs or special interests of one or a few students. Assignments, tutorial sessions, tests, and papers will be assigned by the professor in consultation with individual students.

PHIL 409  Seminar in Philosophical Topics  Three Credit Hours
Prerequisites: at least junior standing and consent of the instructor.
A study of selected topics from various fields of philosophy (e.g., philosophy of history, philosophy of science, aesthetics, philosophy of law) with special emphasis upon their contemporary relevance and interdisciplinary character. Content in any given semester to be determined by student needs.

PHIL 410  Humanity in Crisis:  Three Credit Hours
The Problems of Good and Evil
Prerequisites: at least sophomore standing and (due to limited enrollment) consent of the instructor.
A critical look at a variety of crises facing modern humanity and how they impact upon society, including analysis of their trends and how they relate to questions or right/wrong and good/evil. Consideration of crises in relationship to theology, duty, freedom, honor, justice, law, and happiness.
## ENGLISH MAJOR
### Fall Semester

**FRESHMAN YEAR**

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<th>Credits</th>
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<td>First Year Experience</td>
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<td>Freshman Seminar</td>
<td>FSEM 101</td>
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<td>Freshman Linked Writing Intensive</td>
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<td><strong>Freshman Math</strong></td>
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<td>Modern Language</td>
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<td>General Elective</td>
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**SOPHOMORE YEAR**

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<td>Sophomore Seminar in Principled Leadership</td>
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<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
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<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
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<td>Masterpieces of British Literature</td>
<td>ENGL 203</td>
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<td>Strand Social Science</td>
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**JUNIOR YEAR**

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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<td>Shakespeare I, or</td>
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<td>Shakespeare II</td>
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**SENIOR YEAR**

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<td>Senior Seminar I, or</td>
<td>ENGL 402</td>
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</tr>
<tr>
<td>Senior Seminar II</td>
<td>ENGL 403</td>
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<tr>
<td>General Elective</td>
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<td></td>
</tr>
<tr>
<td>Required Physical Education Activity</td>
<td>0 (0,1)</td>
<td></td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
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</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
### ENGLISH MAJOR

#### FRESHMAN YEAR

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Freshman Science</strong></td>
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<tr>
<td>Modern Language</td>
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<tr>
<td>General Elective</td>
<td>3 ((3,0))</td>
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<tr>
<td>General Elective</td>
<td>3 ((3,0))</td>
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<tr>
<td>Mythology, or</td>
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<tr>
<td>The Bible as Literature</td>
<td>ENGL 212</td>
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<td>1st Year Basic ROTC</td>
<td>102 1 ((1,0))</td>
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#### SOPHOMORE YEAR

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<tbody>
<tr>
<td>Communications in Business</td>
<td>COMM 216 3 ((3,0))</td>
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<tr>
<td>Masterpieces of American Literature</td>
<td>ENGL 215 3 ((3,0))</td>
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<tr>
<td>Strand Natural Science</td>
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#### JUNIOR YEAR

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<td>Strand English</td>
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<tr>
<td>Legal Writing, or</td>
<td>ENGL 411 3 ((3,0))</td>
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<tr>
<td>Advanced Composition</td>
<td>ENGL 413</td>
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<td>Approved ENGL Elective (300 or 400 level)</td>
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<tr>
<td>General Elective</td>
<td>3 ((3,0))</td>
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<tr>
<td>General Elective</td>
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#### SENIOR YEAR

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<td>Internship in Professional Communication</td>
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<td>Approved ENGL Elective (300 or 400 level)</td>
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<td>General Elective</td>
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<td>General Elective</td>
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<td>2nd Year Advanced ROTC</td>
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</table>

REQUIRED FOR GRADUATION: 126 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of History

Department Head: Neulander
Professors: Grenier, Knapp, Neulander, Preston, Sinisi
Associate Professors: Aguirre, Boughan, Mushal, Taylor, Wright
Assistant Professors: Giblin, Hagstrom, Knight, Maddox

The Department of History endeavors to give students an acquaintance with, and an appreciation for, our historical heritage and seeks to enable them to see the relationship between causes and effects in the historical development of their own and other countries and of civilization at large. Furthermore, the study of history is intended to assist the student's development of critical thinking, including the analysis and evaluation of historical evidence and the ability to integrate and interpret such data. History has proven to be a useful preparation for careers in the business, legal, ministerial, military, and other public service professions, as well as a preparation for continuing study in graduate history programs. The Department offers the student majoring in history ample freedom in the selection of upper-level courses within the department and, with 33 hours of general electives, among courses offered by other departments.

From within the department, students majoring in history are required to take the following courses: HIST 201 or 202 (Survey of American History); HIST 259 (ST: Survey in European History); HIST 279 (Survey of Nonwestern or Latin American History); HIST 203 (Introduction to the Discipline History); one course from Group I (300-level European); one course from Group II (300-level American); one course from Group III (300-level Non-Western or Latin American); and one course from Group IV (Military). Students will also have to take one of the following: capstone seminars: HIST 443, 444, 445, or 446 and an internship: HIST 498. In addition, students are required to take two additional courses as history electives. Courses that meet group or history elective requirements must be 300 level or above.

Group I. European. HIST 321 (The Middle Ages), HIST 322 (The Viking Age), HIST 323 (Ireland in the Medieval World), HIST 324 (The French Revolution and Napoleon), HIST 325 (Europe, 1815-1914), HIST 326 (Europe since 1914), HIST 327 (England to 1660), HIST 328 (Great Britain 1660-Present), HIST 329 (The Ancient Greeks), HIST 330 (The Romans), HIST 333 (Scotland Since 1707), HIST 334 (Crime and Punishment Through the Ages), HIST 335 (Hitler and National Socialism), HIST 336 (Modern France, 1848-2000), HIST 338 (Britain and World War I), HIST 339 (Special Topics in European History), HIST 340 (The Renaissance), HIST 341 (The Reformation and Wars of Religion), HIST 342 (Spain, 1000-1700), HIST 343 (War and Society in Early Modern Europe).

Group II. United States. HIST 300 (Colonial America), HIST 301 (Revolutionary America), HIST 303 (The Early Republic), HIST 304 (The Civil War), HIST 305 (The Gilded Age, 1865-1900), HIST 307 (U.S. History, 1900-1945), HIST 308 (U.S.
History, 1945-present), HIST 309 (South Carolina History), HIST 310 (African-American History to 1865), HIST 311 (African-American History since 1865), HIST 312 (The Modern Civil Rights Movement), HIST 313 (A Cultural History of Modern America), HIST 314 (History of the U.S./Mexico Borderlands), HIST 315 (American Indian History - Pre-contact to the Present), HIST 316 (The Old South), HIST 317 (The New South), HIST 318 (The American West), HIST 319 (American Labor History), and HIST 320 (Special Topics in American History).

**Group III. Non-Western World.** HIST 357 (The History of Pre-Modern China), HIST 358 (The History of Modern China), HIST 359 (Silk Roads and Nomadic Empires), HIST 360 (The History of Japan), HIST 361 (Early Islamic History), HIST 362 (Modern Middle East), HIST 364 (Arab-Israeli Conflict), HIST 365 (Special Topics in Non-Western History), HIST 366 (Colonial Latin America), HIST 367 (Military Coups & Dictatorships in Latin America), and HIST 368 (History of Mexico).

**Group IV. Military and Diplomatic.** HIST 380 (World War I), HIST 382 (History of Military Leadership), HIST 383 (Patterns of War to 1763), HIST 384 (U.S. Military History), HIST 385 (Greek and Roman Warfare), HIST 386 (World War II in the Pacific), HIST 387 (History of the Vietnam War), HIST 388 (U.S. Foreign Relations since 1898), HIST 389 (The Global Cold War, 1917-1991), HIST 391 (Special Topics in Military History), and HIST 393 (World War II in Europe and Africa).

All undergraduate courses taken at The Citadel with a subject prefix of HIST will count towards the major GPA.

*From outside the department,* students majoring in history are required to take up to nine hours of language instruction that may or may not build on high school study:

- Students who wish to study the same language at The Citadel that they studied in high school will take a placement test in that language. There are three possible results of that test. If the student places into the elementary level of the language, he/she will be required to take 102, 201, and 202. If the student places into the intermediate level of the language, he/she will be required to take 201 & 202. The third class in the requirement may be an upper-level language class, or it may be a general elective. Students who place beyond the intermediate level will have satisfied the language requirement. They will simply take nine hours of general elective classes; these classes may be upper-level language classes.

- Students who wish to study a different language than what they studied in high school will be required to take 101, 102, and 201.

**Minor in African American Studies**

(Course numbers in parentheses are those used prior to 2007.)

The Minor in African American Studies is designed to underscore the contributions of people of African descent to, and their roles in, American history and to emphasize the importance of diversity to the Corps of Cadets. Through broad interdisciplinary study, the program aims to highlight an appreciation for the significant ways race,
gender, and ethnicity have combined to shape our cultural heritage while promoting the values of excellence in teaching, research, and community service. It further aims:

1. To improve student’s knowledge of the African-American experience.
2. To cultivate students’ ability to think critically, to express themselves effectively, and to respect cultural and gender diversity.
3. To encourage faculty to share their expertise with the community and to maintain a community service component which promotes special classes, symposia, forums; the result will be a contribution to the intellectual, cultural, and ethical growth of The Citadel and the community.

**Administration:** The minor in African American Studies is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

**Structure of the Minor:** The minor will consist of 5 courses (15 credit hours). One of the courses is required of all minors. The other four must be taken in at least two different departments from a list of approved electives. Nine of the total fifteen hours must be completed through courses taken at The Citadel.

1. **Required Course:** All minors must satisfactorily complete the following course.
   AFAM 205 Introduction to African American Studies

2. **Elective Group A:** All minors must also satisfactorily complete at least two of the following Group A courses (a minimum total of six credit hours).
   - ENGL 349 African American Literature
   - HIST 310 African American History to 1865
   - HIST 311 African American History since 1865
   - HIST 312 (409) The Modern Civil Rights Movement
   **OTHER:** Any Independent Study, Senior Research Project, Internship, or special topics course whose primary focus is the African-American experience and which is approved by the Director of the Program.

3. **Elective Group B:** All minors may take, and count toward the minor, up to two (a maximum total of six credit hours) of the following Group B courses.
   - ANTH 202 Cultural Anthropology
   - ENGL 340 Southern Literature to 1900
   - ENGL 348 Twentieth Century Southern Literature
   - HIST 316 Old South
   - HIST 317 New South
   - PSCI 307 Southern Politics
   - PSCI 341 African Affairs
   - PSCI 462 Constitutional Law: Civil Rights and Liberties
   - PSYC 305 Social Psychology
   - SOCI 304 Minority Group Relations
4. **Projected Course of Study:** Students interested in earning the minor will be instructed to file a declaration of intent with the director of the program by the end of the first semester of the junior year. This declaration will outline the projected course of study and will be approved by the director. In addition to approving this projected course of study, the director will assume responsibility for publicizing the program and for monitoring each student’s progress toward fulfilling the requirements of the minor; in this latter capacity, the director will be responsible for verifying that the student has met the requirements of the minor and for notifying the Records Office to that effect.

*Total Credit Hours Required*—15, at least 9 of which must be completed at The Citadel.

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**Minor in History**  
(Not open to history majors)

*Objectives:*
A minor in history, reflecting the structured and sequential offerings within the department, affords students who do not choose to major in history the opportunity to develop expertise within the discipline consistent with their interests and their plans beyond graduation. The minor is designed to give the non-history major an introduction to the basic skills of the historian and the depth of advanced study of the discipline offered within the department whether generally or specifically.

*Competencies, Knowledge, or Skills to be Achieved:*
Students completing the minor will have the beginning skills of the historian and advanced work within the discipline consistent with their interests. They will be experienced both in technique and knowledge and therefore be better prepared for their professional options following graduation.

*Structure of the Minor:*
1. While the student may design the minor in history either on the basis of the history major or to key it to one of the four groups of courses offered by the department, a required course in all cases is HIST 203 (Introduction to the Discipline of History).
2. The student must choose one of the groups below for the history minor. Except for world history, all courses by group may be found in this catalog under the major in history:
   a. World History. A minimum of one course each from the following history groups (Groups I-IV): Europe, United States, Non-Western World, and Military.
   b. European History (Group I). A minimum of four courses from the European history group.
   c. United States History (Group II). (1) HIST 201/202 (Survey of American History). (2) At least two courses at the 300-level or above from the U.S. history group.
   d. Non-Western World (Group III). A minimum of four courses from the Non-Western World group.
e. Military and Diplomatic (Group IV). A minimum of four courses from the Military and Diplomatic group.

Total Credit Hours required: 15 hours beyond the College Core Requirements in History (HIST 103-104), at least 9 hours of which must be taken at The Citadel.

Note: For transcript purposes, the history minor, depending on the elective sequence chosen above, will be designated as one of the following: World History, European History, United States History, Non-Western World History, or Military and Diplomatic History.

Minor in International Relations

I. Statement of Purpose: The minor in International Relations is a multidisciplinary concentration of courses and academic experiences that seeks to prepare students to be more informed citizens and more effective leaders of an increasingly transnational world.

II. Administration: The minor in International Relations is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

III. Curriculum: Students must meet the specified requirements in each of the categories outlined below. Courses used to satisfy elective requirements in a student’s major may also be used to satisfy elective requirements in the minor in International Relations. Students must achieve a cumulative grade point average of at least 2.0 on all courses taken to satisfy the requirements for the minor in International Relations.

(A) History/Geography (6 hours). Any two of the following courses.

HIST 206 (417): History of the Non-Western World
HIST 326: Europe since 1914
HIST 332 (424): History of Modern Russia
HIST 358 (463): History of Modern China
HIST 360 (466): History of Japan
HIST 362: Modern Middle East
HIST 364: Arab-Israeli Conflict
HIST 388: U.S. Foreign Relations since 1898
GEOG 209: World Geography
OTHER: Any Special Topics Course, Independent Study Project, or Academic Internship whose primary focus is International Relations and which is approved by the Director of the Program.
(B) Modern Language (6 hours) Students must demonstrate proficiency through the third year (302) level—i.e. six hours above the college’s core requirement—in a language other than English. The Department of Modern Languages offers optional placement testing each fall for entering students who desire bypass credit for elementary and intermediate courses. Mastery of a second language greatly advances scholarship and professional competence in international affairs. Students are, therefore, encouraged to take additional language courses if possible.

(C) Political Science/Business Administration (6 hours). One of the following courses:
- ECON 202: Principles of Macroeconomics
- MGMT 431: International Business
- PSCI 351: International Political Economy

One of the following courses:
- PSCI 231: International Politics
- PSCI 232: Comparative Politics
- PSCI 331: International Law
- PSCI 333: International Organization
- PSCI 335: Comparative Foreign and Defense Policies
- PSCI 342: International Terrorism
- PSCI 343: Introduction to Non-Western Studies
- PSCI 346: Multinational Peacekeeping
- PSCI 348: Theories of War and Peace
- PSCI 352: Global Democracy
- PSCI 353: International Economic and Development Institutions
- PSCI 431: American Foreign Relations
- OTHER: Any Special Topics Course, Independent Study Project, or Academic Internship whose primary focus is International Relations and which is approved by the Director of the Program.

IV. Study Abroad or Internship: As part of their prescribed work, students who minor in International Relations are required to complete successfully at least one of the following two academic experiences:

(A) Study Abroad: a formal study abroad program of at least four weeks in duration. The Department of Modern Languages has scholarship monies available for highly qualified applicants to its Summer Studies in France and Spain/Latin America, and for study at the Goethe Institute in Germany. Moreover, Citadel Summer Scholarships are available to students posting a 3.5 GPA or better.

(B) Internship in International Relations: an academic internship in some aspect of international relations with an appropriate agency, business, or institution. Examples include: the U.S. Department of State, the U.S. International Trade Commission, the U.S. Congress, the Council on Foreign Relations, the Atlantic Council, and the domestic or overseas offices of international corporations.

Students must submit their proposals to study abroad or to undertake internships in advance to the Director of the program for his or her approval. No student will be allowed to receive credit for these exercises without the approval of the Director.
V. Declaration of Minor: Students who wish to earn the minor in International Relations must file a declaration of intent with the Director of the Program by the beginning of their junior year. This declaration must outline the projected course of study and be approved by the Director.

Total Credit Hours Required: 18, at least 9 of which must be completed at The Citadel.

Minor in Southern Studies

I. Statement of Purpose: The minor in Southern Studies is a multidisciplinary concentration of courses and academic experiences that seeks to promote a better understanding of the American South and, thereby, to prepare students to be more responsible citizens and more effective leaders of that increasingly important region of the United States.

II. Administration: The minor in Southern Studies is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

III. Curriculum: To earn the minor in Southern Studies, students must complete 18 hours of course work from the menu provided below. Students must take at least one course in each of the three designated departments. Students may count no more than three courses in any one of the departments toward the requirements for the minor. Courses used to satisfy elective requirements in a student’s major may also be used to satisfy elective requirements in the minor in Southern Studies. Students must achieve a cumulative grade point average of at least 2.0 on the courses taken to satisfy the requirements for the minor in Southern Studies.

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<tr>
<th>(A) English</th>
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<tr>
<td>ENGL 338:</td>
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<td>ENGL 339:</td>
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<td>ENGL 340:</td>
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<tr>
<td>ENGL 348:</td>
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<td>OTHER:</td>
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(B) **History**

HIST 304: The Civil War  
HIST 309 (402): South Carolina History  
HIST 312 (409): The Modern Civil Rights Movement  
HIST 316 (406): The Old South  
HIST 317 (407): The New South  
OTHER: Any Special Topics Course, Independent Study Project, or Academic Internship whose primary focus is the American South and which is approved by the Director of the program.

(C) **Political Science and Criminal Justice**

PSCI 307: Southern Politics  
PSCI 311: The Civil Rights Movement and American Politics  
OTHER: Any Special Topics Course, Independent Study Project, or Academic Internship whose primary focus is the American South and which is approved by the Director of the program.

IV. **Internship or Independent Research Project:** As part of the 18 hours of course work, students minoring in Southern Studies are required to complete successfully at least one of the following two academic experiences:

(A) **Internship in Southern Studies:** an academic internship in some aspect of southern studies with an appropriate agency or institution. Examples include: the South Carolina Historical Society; the Historic Charleston Foundation; the Charleston Museum; and the offices of federal, state, and local government.

(B) **Independent Research Project:** on a topic dealing with the American South. The research project should lead to a paper of approximately thirty (30) pages in length that is based on both primary and secondary sources and directed by a professor with expertise in the subject under investigation. The paper must be read and approved by, and defended before, faculty members from two different departments with expertise in the area of study.

Students must submit their proposals to undertake internships or independent study projects in advance to the Director of the program for his or her approval. No student will be allowed to receive credit for these exercises without the approval of the Director.

V. **Declaration of Minor:** Students who wish to earn the minor in Southern Studies must file a declaration of intent with the Director of the program by the beginning of their junior year. This declaration must outline the projected course of study and be approved by the Director.

*Total Credit Hours Required:* 18 at least 12 of which must be completed at The Citadel
History Course Descriptions
(Course numbers in parentheses are those used prior to 2007.)

History Courses

AFAM 205  Introduction to African American Studies  Three Credit Hours
Required for a minor in African American studies.
This course introduces the major disciplines and topics that comprise African American Studies. It also provides orientation to faculty, institutional, and community resources, and a foundation for subsequent coursework and research in the field. The interpretive frameworks include the slave community, black religion, the Harlem Renaissance, black cultural pride, and contemporary issues of race and gender.

HIST 103 and HIST 104  History of Western Civilization  Each Semester
Three Credit Hours
A two-semester survey of the development of European civilization from ancient times to the present. Among the major topics examined during the first semester (to 1648) are Classical Greece, Republican Rome, Imperial Rome, the Christian Church, Feudalism, the Renaissance, the Protestant Reformation, and the Age of European Exploration. Major topics examined during the second semester (since 1648) include Absolutism, the Enlightenment, the French Revolution, the Industrial Revolution, Liberalism, Nationalism, Imperialism, Modernism, and Totalitarianism.

HIST 105 and HIST 106  History of World Civilization  Each Semester
Three Credit Hours
A survey of the development of human civilizations, with special attention to cultural borrowing, demographic change, technological development, religion and philosophy. Topics examined in the first semester include the first civilizations of the Near East, the Mediterranean, Africa, Asia, and the Americas, the rise of bureaucratic empires, the spread of world religions, feudalism, and the Silk Road. Topics examined in the second semester include the Columbian Exchange, the African slave trade, the scientific revolution, industrialization, imperialism, and nationalism.

HIST 201 and HIST 202  A Survey of American History  Each Semester
Three Credit Hours
Required of all history majors.
Survey of American history from the period of discovery to the present; a brief treatment of the colonial period, followed by a more detailed study of such subjects as the causes of the Revolution, the framing of the Constitution, the development of political parties, the sectional conflict, economic progress and problems, and foreign relations; special emphasis placed on understanding the nature of American democracy and the role of the United States in world affairs from 1789 to the present.

HIST 203  Introduction to the Discipline of History  Three Credit Hours
Required of all history majors and history minors.
This course is an introduction to historical research and writing. Students will study historiography and the mechanics of constructing historical arguments and papers by working with both primary and secondary sources. The historical period and focus of the course will depend upon the instructor.
HIST 205  Special Topics in History and Film  Three Credit Hours
This course will look at film in historical context. Students will watch films and analyze their uses as primary and/or secondary sources for historical study. They will learn about history of various periods through the use of film.

HIST 206 (417)  History of the Non-Western World  Three Credit Hours
Origins and development of selected non-Western cultures, examining their historical and cultural values and customs as well as their social and political institutions. Emphasis is placed on the cultures of China, Japan, Southeast Asia, the Indian Subcontinent, the Arab and Islamic world, sub-Saharan Africa, and the Americas.

HIST 207  Perspectives on Contemporary Conflicts  Two Credit Hours
A brief survey geared to graduating contract cadets who are preparing for foreign deployment in times of conflict. Its purpose is to supply a concise review of topics related to the specific region that will help prepare them for their tour of duty. Topics to be covered include issues of perception, foreign policy, religion, the region's history, cultural issues, and counsel from returning military personnel. Each topic will be taught and directed by faculty and military personnel who are experts in the specific subject.

HIST 259  Special Topics in European History Survey  Three Credit Hours
Courses with this special topics designation treat the history of the European history at an introductory level. The courses will look chronologically at a broad sweep of European history, helping students understand the continuity and change of the continent over time. The course will also help prepare students for 300 and 400 level courses in the department.

HIST 279  Special Topics in Non-Western, Latin American History Survey  Three Credit Hours
Courses with this Special Topics designation treat the history of the Non-Western and Latin American countries at an introductory level. The courses will look chronologically at a broad sweep of World history, helping students understand the continuity and change of continents over time. The course will also help prepare students for 300 and 400 level courses in the department.

**United States History**

HIST 300  Colonial America  Three Credit Hours
A study of the founding and development of the British mainland colonies in North America through the 1760s. Topics include European motivations for exploration and colonization; the making of the Atlantic World and comparative colonization; the development of social, economic, political, labor, and religious institutions in British America; and international rivalries and conflicts.
HIST 301  Revolutionary America  Three Credit Hours
A study of the origins, events, and results of the American Revolution, 1760s to 1800. Topics will include the political, economic, religious, and ideological origins of the Revolution; the military history of the Revolution; the participation of “outsiders”—women, Indians, African Americans—in the Revolution; the debate over the Constitution; the American Revolution as part of the “Age of Revolution”; and the challenges and crises of the new United States government during the 1780s and 1790s.

HIST 303  The Early Republic  Three Credit Hours
A study of American history, 1800-1850, with an emphasis on politics, economics, military affairs, and religion. There will be detailed studies of men such as Jefferson, Hamilton, Jackson, Clay, Webster, and Calhoun. Significant attention will also be paid to the rise of sectionalism, the growth of American political party systems, the War of 1812, and the Mexican-American War.

HIST 304  The Civil War  Three Credit Hours
The political, economic, diplomatic, and military history of the United States, 1850-1865, emphasizing the forces that tended to bind or disrupt the Union and including a detailed account of the war.

HIST 305  The Gilded Age, 1865-1900  Three Credit Hours
A study of U.S. History, 1865 to 1900. This course examines several large movements and developments, including entrepreneurial capitalism, immigration, constitutional affairs, politics, and agrarian reform. Special attention will be paid to Reconstruction, Western Expansion, and the Spanish-American War.

HIST 307  U.S. History, 1900 to 1945  Three Credit Hours
A study of U.S. History, 1900 to 1945. This course examines the social, cultural, political, military, economic, and foreign policy development of the United States. Special attention will be paid to Progressivism, World War I, the Great Depression, and World War II.

HIST 308  U.S. History, Since 1945  Three Credit Hours
A study of U.S. History since 1945. This course examines the social, cultural, political, military, economic, and foreign policy development of the United States. Special attention will be paid to the Korean War, the Cold War, Vietnam, the Civil Rights movement, the Great Society, the Reagan Revolution, and post-Cold War America.

HIST 309 (402)  South Carolina History  Three Credit Hours
A survey of the political, economic, social and intellectual development of South Carolina from its discovery to the present, with emphasis on the relation of the state to the South and to the nation.

HIST 310  African American History to 1865  Three Credit Hours
This course is an historical examination of the African American experience from 1619 to 1865. The curriculum will move through the experiences of African Americans in the British American colonies and the newly formed United States, discuss the institution of slavery and definitions of race, the antebellum South, Abolitionism, and trace the meaning of Emancipation and how the Civil War affected the future of the black community.
HIST 311  *African American History since 1865*  Three Credit Hours

This course will study the history of African Americans from 1865 to the present. It will begin with emancipation and reconstruction and highlight the social, political, and economic transformation of the black community in the late nineteenth century. Major themes of the course will include the Great Migration, World War I, the Depression, World War II, the Cold War, black leadership, and contemporary issues such as, Afrocentricity and the emergence and influence of Hip Hop culture in American society.

HIST 312 (409)  *The Modern Civil Rights Movement*  Three Credit Hours

This seminar introduces students to current research on the history of the modern civil rights movement, 1941-1975. The aim of this course is to explore the evolution of the modern civil rights era from its beginning during World War II and the integrationist perspective of the 1950s to the militant black power and separatist viewpoint of the early 1970s. It will also discuss how the black power movement grew out of the civil rights movement and how independent black politics, black cultural pride, and armed resistance to terrorism operated in tandem with legal efforts and nonviolent protest in the struggle for African American social equality.

HIST 313  *A Cultural History of Modern America*  Three Credit Hours

This course uses examples of American culture to deepen student’s understanding of the past century’s major developments. These examples, including television programs, songs, films, and material culture, are placed in historical, cultural, and critical contexts. We will focus on three questions regarding culture in American history: does it serve as a transformative agent or merely reflect larger societal changes; how have various cultural expressions helped shape a national democratic culture and identity; and what have been the terms of inclusion and exclusion?

HIST 314  *History of the U.S./Mexico Borderlands*  Three Credit Hours

This course surveys the history of the U.S./Mexico borderlands, from the Pre-Columbian period to the present day. As a borderlands course, students will be prompted to think beyond the framework of the nation-state, and analyze how political, economic, and cultural boundaries are constructed and contested. Topics include the Spanish colonial heritage, Manifest Destiny, the treatment of marginalized groups (indigenous peoples, women, peasants, etc.), immigration, globalization, and the drug trade.

HIST 315  *American Indian History: Pre-Contact to the Present*  Three Credit Hours

This course is an introduction to American Indians’ histories, societies, religions, and cultures from ancient America to twenty-first century America. It highlights Native peoples’ perspectives and demonstrates their central roles in shaping American history and culture. The course teaches an understanding of and appreciation for American Indians’ dynamic and diverse cultures; surveys the major themes, topics, problems, events, and persons in Indian-white relations; and examines the unique methodologies associated with Indian history.
HIST 316 (406)  The Old South  Three Credit Hours
A survey of major issues and institutions in the history of the American South from the colonial period through the Civil War. Particular attention is given to the plantation, slavery, states rights, fundamentalist religion, the ethic of honor, and the origins and consequences of the Civil War. Among the questions addressed are what caused a Southern regional mentality to develop and how different was the South from the rest of the nation.

HIST 317 (407)  The New South  Three Credit Hours
A survey of major issues and institutions in the history of the American South since the end of the Civil War. Particular attention is given to the Cult of the Lost Cause, the New South Movement, racial segregation, progressivism, religion, music, literature, the second reconstruction, and the emergence of the sunbelt South. Among the major questions addressed are why, and how much, did the South change after the Civil War and does a distinctive South still exist.

HIST 319  American Labor History  Three Credit Hours
This course explores the history of working people in the United States from the Colonial era to our “post industrial” or “globalized” present. The course continually returns to three broad areas of historical change: 1) modes of production and work experiences; 2) the continual making and re-making of the American working class; and 3) workers’ movements for social justice and the ideas that animated those movements. Students will deepen their understanding of the interplay of class, ethnicity, race, gender, and region in U.S. history and will be encouraged to think critically about their own work experiences.

HIST 320 (formerly 492)  Special Topics in American History  Three Credit Hours
Examples include African Americans in U.S. Military History, American Legal History, American Business History, American History as portrayed in photography and film, 20th Century American History as seen through Literature, the Roaring Twenties, the Depression and New Deal, and the U.S. from Korea to Vietnam.

European History

HIST 321  The Middle Ages  Three Credit Hours
The nature of society and events in Western Europe from the 7th and 8th centuries A.D. until the decay of the medieval world in the fourteenth century. Topics include the rise of the Franks and the Papacy, the establishment of feudalism, the wars between the popes and the holy roman emperors, the Crusades, intellectual revival, establishment of town democracy, and rise of nation-states at the end of the period.

HIST 322  The Viking Age: c. AD 800-1200  Three Credit Hours
The image of the fierce Vikings, spreading fear and dread across Europe, has been transmitted into the popular culture of today through literature, music and movies, but is this the only legacy of the Vikings? This course will use both primary texts and material culture to not only consider what gave the Vikings their military prowess, but to examine also the economic, political and cultural impact they made in their original homelands, and across Europe, Russia, and Byzantium. Some of the topics considered will be their ship building, religious beliefs, literature, daily life, their role in the growing urbanization of Europe, the creation of economic markets, legal tradition, place-name elements, their military ability, and their roles as mercenaries for Byzantium.
HIST 323  Ireland in the Medieval World:  
c. AD 400-1369  
Three Credit Hours

This course will examine the history of Ireland from c. AD 400-1369. Special focus will be on the cultural, economic, political and religious developments of the Irish people and an introduction to Ireland’s role in the development of the Christian West. Students will also have the opportunity to learn about the rich material culture left to Ireland from the time period and compare primary sources to reports on archaeological remains. Some of the topics to be considered will be Irish kingship, early Irish law, kindred groups, monastic settlements, literary traditions, their military ability, relationships between the Irish and Vikings, Brian Boru and the arrival of the Anglo-Normans.

HIST 324  The Era of the French Revolution  
and Napoleon  
Three Credit Hours

A survey of the causes of the Revolution followed by an examination of the principal events of the period with stress on the major personalities, the ideologies and revolutionary mentality, the political and social aspirations of the lower social orders, the unstable nature of the various revolutionary governments, and the rise of Napoleon and his achievements.

HIST 325  Europe, 1815-1914  
Three Credit Hours

The course of European history from Napoleon’s defeat at Waterloo to the outbreak of World War I. Emphasis is placed on political reaction and reform; the Industrial Revolution and its economic, social and political effects; the Darwinian revolution and its impact on Western thought about man and his origins; the rise of nation-states in Italy and Germany; overseas imperialism; and the factors that contributed to the outbreak of the First World War.

HIST 326  Europe Since 1914  
Three Credit Hours

A survey of the origins and impacts of two World Wars on the major European states, their political, social, and economic development, and their relative positions today.

HIST 327  England to 1660  
Three Credit Hours

A survey of English history from prehistoric times through the English civil war of the 17th century and its aftermath. Emphasis is placed on the development of Parliament, the monarchy, the legal system, and local government. The evolution of British society is traced from Celtic and Roman times through King Alfred, the Anglo-Saxons, the Normans, the Wars of the Roses, the Tudors, and the first Stuart monarchs. Special attention is paid to Celtic warfare, the Roman conquest, Anglo-Saxon warfare, the armored knights of Norman times, and the English legacy to Americans.

HIST 328  Great Britain, 1660-Present  
Three Credit Hours

A survey of British history from the Stuart Restoration to the present. The course will examine the creation of Britain out of the nations of England, Scotland, Wales and Ireland and will explore Britain’s experiences with industrialization, imperialism, the world wars of the twentieth century, and the changes to the nation’s status as a global power since 1945.
HIST 329 (421)  *The Ancient Greeks*  Three Credit Hours
A detailed examination of ancient Greek political history and the ancient Greek contribution to politics, war, philosophy, literature, and art; the Archaic and the Classical ages; and the Hellenistic period to the Roman conquest.

HIST 330 (422)  *The Romans*  Three Credit Hours
A survey of Roman history from Rome’s origins as a Latin village through its conquest of Italy, defeat of Carthage and Greece, and the Roman empire to dominance over the Mediterranean world; the empire’s gradual corruption, loss of political freedoms, the transition to an absolutist, Christian monarchy. Emphasis is placed on the personalities and values of the Romans and how these led to Rome’s glories and failures.

HIST 333 (435)  *Scotland Since 1707*  Three Credit Hours
A survey of the political, social, cultural, and economic history of Scotland since union with England. Topics include Jacobitism, the clan system, the Highland clearances, the industrialization of the Lowlands, and Scottish nationalism. Special emphasis is placed on attempts to retain Scottish distinctiveness while integrating into the wider community of Great Britain.

HIST 334  *Crime and Punishment Through the Ages*  Three Credit Hours
A survey of the way past societies in the Western tradition have defined and dealt with crime, starting with the Code of Hammurabi and the Mosaic Law in the Ancient Near East and ending with the invention of the modern prison system and police forces in Europe and America in the early 19th century. The focus will be on how each society’s values shaped its definition of what a crime was, the way investigations and trials were conducted and the way convicted criminals were punished in each time and place.

HIST 335 (481)  *Hitler and National Socialism*  Three Credit Hours
A survey of the Nazi movement from its late nineteenth century antecedents to its culmination in 1945. Special emphasis will be given to the life of Hitler and to areas of controversial interpretation. Among these are the alleged reactionary nature of National Socialism, the “legal” rise of the party to power, the statesmanship of Hitler, his sanity, and the Holocaust.

HIST 336  *Modern France, 1848-2000*  Three Credit Hours
This course will look at the history of France from the Revolution of 1848 and the rise of the Second Empire, through the two world wars, to 2000. It will focus on this era’s political, social, and cultural changes. Special attention will be paid to the rise of Paris as a world capital, the affects of World War I on interwar politics, gender and culture, the generation gap caused by the postwar baby boom, and the integration and resistance of French citizens to the merging European Union at the end of the twentieth century.
HIST 338  Britain and World War I  Three Credit Hours
   This course will consider the British experience of World War I. In addition to an overview of the military experience of the war, the course will examine the variety of ways in which this war was a transformative experience. Topics will include: the experience of the home front, changing roles of the government, new definitions of citizenship, as well as effects on the empire and on Britain’s relationship with Ireland.

HIST 339 (491)  Special Topics in European History  Three Credit Hours
   Examples include the Crusades; the Scientific Revolution; the Age of Louis XIV; the Golden Age of the Hapsburgs, 1740-1914; the French Foreign Legion; the Russian Revolution as Portrayed in Literature and Film; the Development of the English Constitution; and Germany since 1945.

HIST 340  The Renaissance  Three Credit Hours
   This course examines movements of artistic, intellectual, renewal that first developed in Italy in the fourteenth and fifteenth centuries, spread throughout western Europe after 1500, and were together named “The Renaissance.” The course will examine the Renaissance in its birthplace, the hustling, aggressive communes (city-states) of Trecento and Quattrocento Italy, giving special attention to the republic of Florence. It will consider the Renaissance in its social, economic, and political contexts, and expose its roots in medieval high culture and in the Commercial Revolution of 1000-1350.

HIST 341  The Reformation and Wars of Religion  Three Credit Hours
   This course examines the sixteenth-century European Christian reform movements that established the Protestant churches and reinvented the Roman Church. It considers the Reformation not just as a religious transformation, but as a process of profound and violent social, political, and cultural upheaval in Early Modern Europe. Topics addressed will include the Reformation’s roots in medieval Christian theology and Renaissance humanism, the role of religious reform in the construction of modern states and notions of family and gender, reformed theology as a spur to violent class conflict, the formation of radical Christian theocratic communities, and the civil and international religious wars of the sixteenth and seventeenth centuries.

HIST 342  Spain, 1000-1700  Three Credit Hours
   A survey of seven centuries of the history of the Iberian peninsula, from the age of the Reconquista to the building of the great transoceanic empires of early modern Spain and Portugal. The course focuses on politics, culture, society, and religion in the Christian kingdoms, especially Castile; the contributions of al-Andalus (medieval Islamic Spain) to the cultures of the Christian kingdoms in particular, and to the Latin West in general, are also specially considered.
HIST 343  *War and Society in Early Modern Europe*  Three Credit Hours

War was a chronic condition of western Europe from the fourteenth century through the seventeenth. It was also a fundamental cultural institution and big business. This course examines war as a social, cultural, and economic construct in Early Modern Europe. While the course will hardly ignore such topics as weapons, tactics, and combat operations, these are not its primary concerns. Rather, it focuses upon military culture and military institutions, and how they were determined by – and in turn determined – broader religious, political, social, and economic trends. Special attention will be paid to mercenary companies and their captains as both products and drivers of early capitalism, particularly in Italy, and to the experience of chronic war in the Low Countries in the latter half of the sixteenth century, as the formidable Army of Flanders struggled to quell Dutch revolt against Spanish rule.

**Non-Western History**

HIST 356  *The History of Africa, 1500-Present*  Three Credit Hours

An examination of the history of Africa from the beginning of the Western slave trade to the present day. Topics will include the rise and fall of slavery and the slave trade in Africa, the rise of African economies, European conquest and imperialism, decolonization, and post-imperial politics and society. Special attention will be paid to the diversity of experience on the African continent as well as the region’s relationship to other areas of the world.

HIST 357 (462)  *The History of Premodern China*  Three Credit Hours

The history of China from its beginnings to the eve of its clash with the West in the nineteenth century. The course examines the development of premodern China’s political, social, and economic institutions, many of which lasted into the twentieth century. Special emphasis will be given to premodern religion, popular culture, and daily life.

HIST 358 (463)  *The History of Modern China*  Three Credit Hours

The history of China’s tumultuous entry into the modern world. The course examines China’s struggle to adjust its traditions to the reality of Western dominance and the radical changes in Chinese society that this adjustment caused. Emphasis will be given to the failure of the 1911 Revolution, the rise and victory of the Communist Party, the Cultural Revolution, and the regime of Deng Xiaoping.

HIST 359 (464)  *Silk Roads and Nomadic Empires*  Three Credit Hours

This course looks at the history of the caravan trade routes across Eurasia that have become known as “The Silk Road.” The significance of these trade routes lies in the fact that they ensured the distribution and mixing of luxury goods, religions, technologies, literatures, and peoples from one end of Eurasia to another. In fact, many scholars argue that these trade routes created a unified economic world system, which has made the cultures of Eurasia materially much stronger than those of any other continent. Moreover, the wealth generated by the silk roads often inspired the creation of nomadic empires that had an immense effect on the great agrarian civilizations that bordered the steppes. Through their immense military strength and prowess, these nomadic empires often significantly affected the history of the outlying sedentary civilizations. Thus, this course’s focus will be the Central Eurasian nomads and oasis-dwellers who played a central role in the functioning of the Silk Road and their impact on their agricultural neighbors.
HIST 360 (466)  The History of Japan  Three Credit Hours

An examination of Japan’s history from its prehistoric origins to its postwar economic miracle. Topics such as the “Horserider Theory,” Heian court life, samurai rule, Japanese “feudalism,” Shintoism, Japanese Buddhism, the Meiji Reform, the prewar militarization, and the postwar transformation into an economic superpower will all receive special attention.

HIST 361  Early Islamic History  Three Credit Hours

A survey of the early Islamic world roughly from 600 through 1800. There will be geographical emphasis on the Middle East, but the class will also examine North Africa, Spain, Central Asia, and India. The course examines, but is not limited to: Muhammad and the foundations of Islam, Islamic conquests, early dynasties, rise of independent kingdoms, Islamic Spain, Islamic North Africa, Crusades, Mongol invasions, Moghuls, Safavids, and Ottomans.

HIST 362  Modern Middle East  Three Credit Hours

A survey of Middle East history with an emphasis upon those events that provide historical background and context for current affairs in the region. It covers from around 1800 to the present, with an emphasis on the twentieth- and twenty-first centuries, beginning with the decline of the Ottoman Empire, and goes on to cover the impact of WWI and WWII, Zionism, the rise of modern Middle East states, the Israeli-Palestinian conflict, Arab nationalism, the rise of political Islam and Islamic fundamentalism, a brief history of U.S. interest and activity in the region, the advent and rise of terrorism in the Middle East, and both Gulf Wars.

HIST 364  The Arab-Israeli Conflict  Three Credit Hours

A study of the turbulent history between the Arab countries of the Middle East and the state of Israel. The course will cover the rise of the World Zionist Organization, the impact of WWI and WWII diplomacy on the topic, the creation of the state of Israel, the impact of the state of Israel on the Palestinian people, the various wars and conflicts that have emerged between the Arab states and Israel, as well as the first and second Intifada in the occupied territories, the U.S. role in the conflict, and the impact of the Arab-Israeli conflict on terrorism. The course will cover a period roughly from 1900 to the present.

HIST 365 (493)  Special Topics in Non-Western History  Three Credit Hours

Examples include finely focused studies on China, Japan, Columbus and his World, Slavery in the Spanish Main, Portuguese Colonization of Brazil, the History of the Ottoman Empire, the Islamic world, and twentieth-century Africa.

HIST 366  Colonial Latin America  Three Credit Hours

This course examines Latin American history from Pre-Columbian societies to the nineteenth century independence movements. The primary focus is on colonialism and its influence on the distinct economic, political, and social dynamics that emerged from the often violent contact between Europeans, indigenous peoples, and Africans. Other topics include the Transatlantic slave trade, daily life in the colonies, religion, gender, race and ethnicity, resistance and rebellion, the Enlightenment, nationalism, and independence struggles.
HIST 367  Military Coups and Dictatorships in Latin America

This course examines Latin America’s military coups and dictatorships since 1810. Students will first explore how Iberian militarism and colonialism influenced the rise of military strongmen in the nineteenth century. Students will then analyze primary sources to gain an understanding of the political, economic, and cultural implications of authoritarianism. Other major topics include: left-wing/right-wing political ideologies, popular reactions and/or resistance to dictatorships, and U.S./Latin American relations.

HIST 368  The History of Mexico

This course surveys Mexican history from the Pre-Columbian period to the present day. Topics include Mexico’s diverse indigenous societies, Spanish colonialism, the treatment of marginalized groups (such as indigenous peoples, women, peasants, and ethnic minorities), the struggle for democracy, femicide, U.S./Mexico relations, and the twenty-first century war on drugs.

HIST 371  Historical Studies in Leadership

Case studies in how different eras and cultures have envisioned good leadership and of how significant people have embodied its qualities. Examples include: Ethics and Leadership in the Classical World, Founders of the American Republic, Great Military Commanders, and Civil Rights Leaders of the Modern World.

Military and Diplomatic History

HIST 372  Special Topics in War and Society

Courses with this Special Topics designation treat the relationship between a society and the conduct of military activities, especially warfare. Courses may come from any geographic region or time period. Courses may use multiple methodological approaches to examine the ways societies prepare for war, experience it, and deal with its consequences.

HIST 375  The French and Indian War, 1754-1763

The French and Indian War was one of the most significant and decisive conflicts in American and World history. It was the American theater of operations in the first world war, known as the Seven Years’ War (1756-1763). Fighting began in America and spread to Europe, the Caribbean, Mediterranean, West Africa, India, and the Philippines. The war pitted Britain, Prussia, and the Thirteen Colonies against France, Austria, Russia, and Spain in a contest for imperial domination. In America, Indian nations defined much of the character of the war and profoundly influenced the war’s origins and outcomes. The course examines the major characters, campaigns, and combatants of the Seven Years’ War in the Americas, Europe, Africa, and Asia.
HIST 380 (475)  World War I  Three Credit Hours
This is a course on the Great War, the reality of which does not quite meet the stereotype. While there was the stalemate of the trenches, there was great movement in the East and even in the West in the last year. During the war, armies virtually rearmed with new weapons and retrained, adopting new tactics. Mass assaults gave way to storm squads; cavalry gave way to armor and aircraft. The squandering of lives led to mutinies. Economies saw unprecedented mobilization. It was total war, at a cost of 5,500 lives every day for a 1,500 day war, and one can argue that the outcome was far more cataclysmic than that of the Second World War.

HIST 382  History of Military Leadership  Three Credit Hours
This course examines the many historical models of military leadership from the ancient world to the present, with emphasis on trends in strategy, tactics, management, and civil-military relations. Successful military leadership has meant many different things at different levels of command and in different places and times, and yet there are some qualities of leadership that have proved enduring.

HIST 383 (487)  Patterns of War to 1763  Three Credit Hours
The patterns of war from ancient times to the eve of the American Revolution with emphasis on change in the technological, organizational, and social-political nature of war.

HIST 384 (488)  U.S. Military History  Three Credit Hours
This course examines the antecedent and development of United States military policy and the conduct of war from the colonial era to the present. This course proceeds from the premise that the military history of the United States is best understood from a combination of “traditional” military history (an emphasis on battles and commanders) and “new” military history (an emphasis on politics, diplomacy, economics, technology, gender, society, and culture).

HIST 385  Greek and Roman Warfare  Three Credit Hours
This course examines the waging of war in the ancient Mediterranean, particularly among the Greeks and Romans. It explores cultural attitudes toward war, the institutions that supported the waging of war, the actual progress of campaigns and battles, technological and tactical innovation, and consider in what ways or to what extent the warfare of the Greeks and Romans represents the heritage of modern war. The course also carries with it several kinetic modes: making and painting shields, experimenting with Greek and Roman formations.

HIST 386  World War II in the Pacific  Three Credit Hours
This course will examine the Pacific theater of World War II. The class will examine the causes of the conflict and the course of its military campaigns. The course will devote attention to air, land, and naval combat. The class will ultimately place the events and consequences of the war in the context of the military, diplomatic, and political history of the twentieth century.
HIST 387 (489)  *History of the Vietnam War*  Three Credit Hours

The history of the American war in Vietnam, including the foundations of French imperialism in Indochina; native resistance; the first Indochina War; American policy, intervention, and withdrawal; the impact on American domestic society; and the fall of the Western-oriented government of South Vietnam.

HIST 388  *U.S. Foreign Relations since 1898*  Three Credit Hours

This course explores America’s major international relationships - diplomatic, economic, military, and cultural - since 1898. While keeping in mind the interplay between diplomacy and domestic developments, the course will focus on fundamental questions such as: Are America’s international relationships primarily motivated by a drive for security and prosperity? To what degree have Americans embraced a national mission to spread liberal, democratic values abroad? To what extent have cultural undercurrents influenced American diplomacy? Major topics will include America’s rise to global power, the World Wars, the Cold War, ideology, the military-industrial “complex,” U.S.-Latin America relations, the international arms trade, and relations in the Middle East.

HIST 389  *The Global Cold War, 1917-1991*  Three Credit Hours

The Cold War was arguably the twentieth century’s most significant long-term conflict. This course takes an international perspective on its varied causes and consequences in Europe, the Americas, Asia, and the Middle East. We will explore diplomatic relations between several nations during this era and the many effects the Cold War had on these nations’ citizens, including the American military-industrial “complex,” the Soviet gulag, and “client” regimes in the developing world. Major topics will include U.S.-Soviet relations and nuclear diplomacy; wars in Korea, Vietnam, and Latin America; crises in Berlin, Budapest, Prague, and Cuba; decolonization and the rise of the “Third World”; “the containment doctrine”; espionage and McCarthyism; and the (surprising) end of the Cold War.

HIST 391 (494)  *Special Topics in Military History*  Three Credit Hours

Examples include the Napoleonic Legacy in Warfare, the United States in World War I, the Cold War, Nuclear Weapons and Arms Control, Theories of Strategy and Policy, the French Foreign Legion and French Imperial Policy, the Panama Canal and the Balance of Power, the German Army since 1740, and the History of Intelligence and National Security.

HIST 392 (495)  *Special Topics in History*  Three Credit Hours

Examples include Imperialism, Revolutions in the Western World, Science and Technology in the Western World, the History of Medicine, and Psycho-Sociological History.

HIST 393  *World War II in Europe and Africa*  Three Credit Hours

This course will examine the European and African theaters of World War II. The class will examine the causes of the conflict and the course of its military campaigns. The course will devote attention to air, land, and naval combat. The class will ultimately place the events and consequences of the war in the context of the military, diplomatic, and political history of the twentieth century.
HIST 395  *History of Weapons and Firepower* Three Credit Hours

This course will examine the development of weapons since the beginning of western civilization. Attention will be devoted especially to the development of military small arms within the broader histories of technology and military affairs. The class will also study the tactical and operational significance of weapons development and employment. Special emphasis will placed on a hands on approach to learning, which will include the use of live-fire weapons ranges.

**Capstone Seminars**

HIST 443  *Capstone Seminar in American History* Three Credit Hours

A Capstone seminar restricted to history majors with an academic classification of 2B or higher. Requires the writing of a major research paper on a topic in American History. The papers will be presented and discussed in class with the other members of the seminar.

HIST 444  *Capstone Seminar in European History* Three Credit Hours

A Capstone seminar restricted to history majors with an academic classification of 2B or higher. Requires the writing of a major research paper on a topic in European History. The papers will be presented and discussed in class with the other members of the seminar.

HIST 445  *Capstone Seminar in Non-Western History* Three Credit Hours

A Capstone seminar restricted to history majors with an academic classification of 2B or higher. Requires the writing of a major research paper on a topic in Non-Western History. The papers will be presented and discussed in class with the other members of the seminar.

HIST 446  *Capstone Seminar in Military History* Three Credit Hours

A Capstone seminar restricted to history majors with an academic classification of 2B or higher. Requires the writing of a major research paper on a topic in Military History. The papers will be presented and discussed in class with the other members of the seminar.

**Special Course Descriptions**

These courses are intended to be offered on an occasional basis, according to student demand and staffing availability. In addition, those courses that suit a seminar or tutorial format will permit students to be exposed to modes of instruction and learning other than those emphasized in lecture-oriented classes.

HIST 490  *Research Project* Three Credit Hours

Prerequisite: Approval of department head and supervising professor.

An independent research project culminating in a formal paper. Research topic determined through consultation between student and supervising professor. Especially recommended for those students considering graduate or professional studies.
HIST 496  Seminar Three Credit Hours
Subject to the approval of the department head, a seminar on some special topic or
historical problem as proposed by faculty or history majors. Topics include Castro’s
Cuba, the Founding and Development of the State of Israel, Stalin’s Russia, and the
Presidency of Franklin D. Roosevelt.

HIST 497  Tutorial Three Credit Hours
Subject to the approval of the department head, the tutorial is designed to meet
the needs or interests of one or a few students. Readings, tutorial sessions, papers,
and/or tests will be assigned by the professor in consultation with individual students.

HIST 498  Internship Three Credit Hours
Prerequisite: Permission of department head.
Internships with the South Carolina Historical Society and similar organizations
are offered to combine academic training with the acquisition of skills in archival
work, historic preservation, and other types of applied history.

Geography Course Descriptions

GEOG 209  World Geography Three Credit Hours
A course dealing primarily with the elements and principles of geography. Fa-
miliarity with important global features and locations is stressed. Topics include
maps, oceans, atmosphere and winds, climate (elements and patterns), landform,
soils and agriculture, mineral resources and industry.

GEOG 301  Introduction to Geographic Information Systems Four Credit Hours
Principles and applications of geographic information systems (GIS). Examines
the nature and accuracy of spatially referenced data, as well as methods of data
capture, storage, retrieval, visualization, modeling, and output using one or more
GIS products. Course includes a laboratory component.

GEOG 311  Economic Geography Three Credit Hours
The geographic foundations and distributions of economic activities in different
parts of the world.
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<th>Code</th>
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<td>Freshman Linked Writing Intensive</td>
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<tr>
<td>Survey of American History I</td>
<td>HIST 201</td>
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<td>or Survey of American History II</td>
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**Sophomore Year**

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**Junior Year**

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<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Political Science Elective (300-level)</td>
<td>PSCI</td>
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</tr>
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<tr>
<td>General Elective</td>
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<tr>
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**Senior Year**

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<tr>
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<td>Capstone Seminar</td>
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<td>General Elective</td>
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<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
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<tr>
<td>Required Physical Education</td>
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<td>0 (0,1)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</table>

*Represents semester credit, lecture, and laboratory hours, in that order.


Group II (UNITED STATES): 300, 301, 303, 304, 305, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, and 320.


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<th></th>
<th>Course</th>
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<th>Hours</th>
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<td>Special Topics in European History Survey</td>
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<td></td>
<td>Modern Language</td>
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<td>3  (3,0)</td>
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<td>102 1  (1,0)</td>
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<td>SOPHOMORE YEAR</td>
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<td>Group IV History Elective</td>
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<td>SENIOR YEAR</td>
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<tr>
<td></td>
<td>Year Advanced ROTC</td>
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</table>

** See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Intelligence and Security Studies

Department Head: Valero
Professors: Goldman,
Assistant Professors: Fraser-Rahim, Graves, Hendrix
Citadel Fellow: Brady

The department offers an academic major in intelligence and security studies. The major affords students the opportunity to obtain a broad liberal arts education that enriches their lives and prepares them to enhance national security through intelligence and homeland security leadership. The course of study for students majoring in intelligence and security studies begins with a set of core courses to introduce them to the discipline. Students within the major are required to complete one of the concentration areas: Business Intelligence, Chinese Area Studies, Counterterrorism, General Intelligence, and Military Intelligence.

Other Programs and Courses: The Department offers one minor: Intelligence and Homeland Security. The Department also participates in the college’s interdisciplinary minors in African-American Studies, International and Military Affairs, Law and Legal Studies, and Non-Western Studies. For a full description of these minor programs, please refer to the appropriate entries in this catalog: Department of History – African-American Studies; Department of Political Science – International and Military Affairs, Law and Legal Studies, and Non-Western Studies.

Major Requirements: B.A. in Intelligence and Security Studies

The Bachelor of Arts (BA) in Intelligence and Security Studies (ISS) is designed to meet the national security and intelligence needs of military, federal, state, and local governmental agencies; private corporations engaged in the intelligence and security fields; and others who are interested in gaining greater knowledge about the field. The BA consists of 15 courses (45 credit hours) offered by various academic units at The Citadel. In order to provide students with a broad-based liberal arts education, the major is highly interdisciplinary.

This ISS major seeks to develop students’ capabilities for critical thinking and systematic analysis and increase their knowledge of effective leadership for national security. Each student completes a required core curriculum consisting of the following courses:

INTL 201 Introduction to Intelligence Studies (3 credits)
INTL 210 Homeland Security (3 credits)
INTL 301 Advanced Analytics 1 (3 credits)
INTL 310 Intelligence Collection Systems and Programs (3 credits)
INTL 401 Intelligence Support to Military Operations (3 credits)
INTL 403 Intelligence Capstone (3 credits)
CSCI 227 Principles and Practices of Cybersecurity (3 credits)

In addition, students must complete one of the following concentration areas:

- Business Intelligence
- Chinese Area Studies
- Counterterrorism
- General Intelligence
- Military Intelligence

Students majoring in ISS take up to twelve hours of foreign language instruction that may or may not build on high school study:
- Students who wish to study the same language at The Citadel that they studied in high school will take a placement test in that language. There are three possible results of that test. If the student places into the elementary level of the language, he/she will be required to take 102, 201, and 202. If the student places into the intermediate level of the language, he/she will be required to take 201 & 202. The other class or classes in the twelve-hour requirement may be upper-level language electives or general electives. Students who place beyond the intermediate level will have satisfied the language requirement. They will simply take twelve hours of general elective classes; these classes may be upper-level language classes.
- Students who wish to study a different language than what they studied in high school will be required to take 101, 102, 201, and 202.
- All undergraduate courses taken at The Citadel with a subject prefix of ANTH, CRMJ, INTL, and PSCI will count towards the major GPA.

**Minor in Intelligence and Homeland Security**

*Objectives:*

This minor is designed to introduce students to the concepts of Intelligence and Homeland Security. This includes terrorism, intelligence collection systems, cybersecurity, local and national security, engineering, defense contracting, and emergency management. This minor seeks to develop each student’s capabilities for critical thinking and systematic analysis and is designed to increase the student’s knowledge of effective leadership for national security. It will enhance the knowledge and skills of students majoring in other subjects but interested in applying their discipline within the fields of homeland security and/or intelligence.
**Competence, Knowledge, or Skills to be Achieved:**

The minor introduces students to intelligence analysis, critical thinking, and homeland security terms and practices as well as theoretical matters. Aside from an understanding of the nature of the legal process, the minor seeks to develop each student’s capabilities for critical thinking and systematic analysis. This minor is designed to increase the student’s knowledge of effective leadership for national security and of how to apply leadership strategies and tactics to complex intelligence and homeland security issues.

This Intelligence and Homeland Security minor is open to all undergraduate students and require no prerequisite courses. In addition to the three required courses, Intelligence majors are required to take two non-Intelligence courses as electives.

**Structure of the Minor:**

1. **Required Courses**
   - **INTL 201** Introduction to Intelligence Studies
   - **INTL 210** Homeland Security
   - **INTL 310** Intelligence Collection Systems and Programs

2. **Electives (choose two)**
   - **BIOL 207** Bioterrorism
   - **CHEM 309** Chemistry of War
   - **CRMJ 330** Emergency Management
   - **CRMJ 331** Cyber Investigations
   - **CRMJ 332** Comparative Counter-Terrorism
   - **CRMJ 383** Comparative Criminal Justice
   - **CSCI 227** Principles and Practices of Cybersecurity
   - **INTL 301** Advanced Analytics I
   - **INTL 311** US Intelligence Successes and Failures
   - **INTL 312** America’s Drone Campaign Since 9/11
   - **INTL 401** Intelligence Support to Military Operations
   - **INTL 402** The Military Instrument of Power
   - **INTL 403** Intelligence Capstone
   - **INTL 464** Intelligence Internship
   - **INTL 465** Special Topics in Intelligence
   - **PSCI 332** National Security Policy
   - **PSCI 342** International Terrorism
   - **PSCI 433** US National Intelligence

**Total Hours Required:** 15, of which 9 must be completed at The Citadel

**Concentration Areas**
Business Intelligence

Students learn the role that intelligence plays in the modern business world. Emphasis is placed on providing “decision advantage” to business leaders who must deal with an increasingly competitive entrepreneurial environment. To complete the ISS major, students take five (5) courses from the following list along with three (3) General Intelligence Electives:

**Business Intelligence Core Courses (Students take each course):**

- ACCT 201 Principles of Financial Accounting (3 credits)
- ACCT 202 Principles of Managerial Accounting (3 credits)
- MGMT 421 Management Information Systems (3 credits)

**Business Intelligence Electives (Students take two (2) of the following courses):**

- BLAW 301 Principled Entrepreneurship and the Free Enterprise System (3 credits)
- BANA 101 Principles of Business Analytics (3 credits)
- MGMT 431 International Business (3 credits)
- SCMT 304 Project Management (3 credits)

Chinese Area Studies

Students gain an understanding of the language, culture, and history of China in the context of U.S. national interests. To complete the ISS major/Chinese Concentration, students complete the following courses:

**Freshman and Sophomore Language Requirements:**

- CHIN 101 Introduction to Chinese I (3 credits)
- CHIN 102 Introduction to Chinese II (3 credits)
- CHIN 201 Intermediate Chinese I (3 credits)
- CHIN 202 Intermediate Chinese II (3 credits)

**Chinese Area Studies Core Courses (Students take each course):**

- PSCI 231 Introduction to International Politics (3 credits)
- PSCI 337 East Asian Affairs (3 credits)

**Chinese Area Studies Electives (Students take six (6) of the following courses):**

- CHIN 301 Advanced Speaking, Reading, and Writing I (3 credits)
- CHIN 302 Advanced Speaking, Reading, and Writing II (3 credits)
- CHIN 303 Chinese Civilization (3 credits)
- CHIN 307 Business Chinese (3 credits)
- CHIN 450 Undergraduate Seminar: Studies in Special Topics (3 credits)
- HIST 206 (417) History of the Non-Western World (3 credits)
HIST 357 (462) The History of Pre-Modern China (3 credits)
HIST 358 (463) The History of Modern China (3 credits)
PSCI 338 Southeast Asian Affairs (3 credits)
PSCI 345 South Asian Affairs (3 credits)

**Counterterrorism**

Students gain an understanding of the theory, history, threat, prevention, and response to both international and domestic terrorism. To complete the ISS major, students take six (6) courses from the following list along with two (2) General Intelligence Electives:

*Counterterrorism Core Courses (Students take each course):*

- CRMJ 332 Comparative Counter-Terrorism (3 credits)
- PSCI 342 International Terrorism (3 credits)
- PSCI 231 International Politics (3 credits)

*Counterterrorism Electives (Students take three (3) of the following courses):*

- BIOL 207 Bioterrorism (3 credits)
- CRMJ 331 Cyber Investigations (3 credits)
- CSCI 327 Computer Security (3 credits)
- CSCI 427 Advanced Cybersecurity (3 credits)
- HIST 356 The History of Africa, 1500-Present (3 credits)
- HIST 361 Early Islamic History (3 credits)
- HIST 362 Modern Middle East (3 credits)
- HIST 364 The Arab-Israeli Conflict (3 credits)
- PSCI 331 International Law (3 credits)
- PSCI 332 National Security Policy (3 credits)
- PSCI 339 Middle Eastern Affairs (3 credits)
- PSCI 346 Multinational Peacekeeping (3 credits)
- SOCI 301 Cults (3 credits)

**General Intelligence**

The General Intelligence Concentration provides the broadest and most interdisciplinary approach to the ISS major. As students choose from a wide variety of electives, they are encouraged to work with their advisor to create a unique program that best meets their individual needs. To complete the ISS major/General Intelligence Concentration, students take eight (8) courses from the following General Intelligence Electives list:

- ANTH 202 Cultural Anthropology (3 credits)
- BIOL 207 Bioterrorism (3 credits)
- CRMJ 331 Cyber Investigations (3 credits) (3 credits)
- CRMJ 332 Comparative Counter-Terrorism (3 credits)
- CRMJ 333 Immigration and Security (3 credits)
CRMJ 381 Organized Crime (3 credits)
CRMJ 384 International Crime (3 credits)
CRMJ 392 Cyber Crime (3 credits)
CSCI 327 Computer Security (3 credits)
CSCI 427 Advanced Cybersecurity (3 credits)
GEOG 301 Introduction to Geographic Information Systems (3 credits)
GEOG 311 Economic Geography (3 credits)
HIST 206 (417) History of the Non-Western World (3 credits)
HIST 326 Europe Since 1914 (3 credits)
HIST 356 The History of Africa, 1500-Present (3 credits)
HIST 362 Modern Middle East (3 credits)
HIST 388 U.S. Foreign Relations since 1898
HIST 389 The Global Cold War, 1917-1991
INTL 311 Intelligence Successes and Failures (3 credits)
INTL 312 America’s Drone Campaign Since 9/11 (3 credits)
INTL 402 The Military Instrument of Power (3 credits)
INTL 464 Intelligence Internship (3 credits)
INTL 465 Special Topics in Intelligence (3 credits)
PSCI 310 Domestic Terrorism (3 credits)
PSCI 332 National Security Policy (3 credits)
PSCI 336 Russia and the Commonwealth of Independent States (3 credits)
PSCI 339 Middle Eastern Affairs (3 credits)
PSCI 342 International Terrorism (3 credits)
PSCI 346 Multinational Peacekeeping (3 credits)
PSCI 401 Political Issues and Public Policy (3 credits)
PSCI 431 American Foreign Relations (3 credits)
PSCI 433 Topics in International Politics (3 credits)

Military Intelligence

Students gain a strong background in the history and function of intelligence as practiced by the United States military. To complete the ISS major/Military Intelligence Concentration, students take six (6) courses from the following list along with two (2) General Intelligence Electives:

HIST 326 Europe Since 1914 (3 credits)
HIST 382 History of Military Leadership (3 credits)
HIST 384 US Military History (3 credits)
HIST 386 World War II in the Pacific (3 credits)
HIST 387 History of the Vietnam War (3 credits)
HIST 388 U.S. Foreign Relations since 1898 (3 credits)
HIST 389 The Global Cold War, 1917-1991 (3 credits)
HIST 393 WW II in Europe and Africa (3 credits)
HIST 391 ST: Greek and Roman Warfare (3 credits)
HIST 395 History of Weapons and Firepower (3 credits)
INTL 311 Intel Successes and Failures (3 credits)

**Intelligence and Security Studies Courses**

**INTL 201 Introduction to Intelligence Studies** Three Credit Hours
This course is a broad overview of the intelligence gathering and analysis as practiced by agencies of the United States government, to include its purpose, history, and potential benefits. The organizational makeup of the U.S. Intelligence Community (IC); the laws, guidelines, and ethics pertaining to intelligence collection; and, employment/internship possibilities in the IC will also be presented. Finally, students will be given an introduction to analytical procedures and writing/briefing for policymakers.

**INTL 210 Homeland Security** Three Credit Hours
An introduction to various aspects of terrorism and homeland security as both affect the United States today. Much of the focus will concern the problems and challenges stemming from 9/11 that create today’s world situation. To understand what is going on currently, the course will examine the historical context of both terrorism and national security as it relates to terrorism.

**INTL 301 Advanced Analytics I** Three Credit Hours
Prerequisite: INTL 201 or permission of Instructor
Students learn about the challenges inherent in analytics and methodologies used to overcome biases and present findings in a meaningful way. The course is designed to acquaint students with methods to maximize analytical rigor and provide policymakers with the intelligence necessary for them to make decisions under conditions of uncertainty and ambiguity. Emphasis is placed on working through case studies and developing writing and briefing skills.

**INTL 310 Intelligence Collection Systems** Three Credit Hours
This is a seminar course addressing intelligence collection systems and programs. Particular emphasis will be placed on intelligence collection platforms, their limitations and capabilities, and how they are used in support of national intelligence requirements. The course will also focus on how these systems and programs are planned and executed. The seminar format will emphasize student participation in the form of presentations, papers, and related discussion.
INTL 311  
**US Intelligence Successes and Failures**  
Three Credit Hours  
This course will examine a number of cases that aptly demonstrate the underlying operational, analytic and managerial “hows and whys” of US intelligence success and failure. Reading material will include formal Congressional inquiries, declassified official “lessons learned”, unclassified articles by former practitioners, select media commentaries, and a few academic papers. The course will conclude with an examination of the various efforts at reform, some of which have fundamentally transformed the American Intelligence Community and others that have fallen short of effecting real change.

Case studies will highlight and explore the various “Ingredients for Intelligence Success” including: effective management structures and organization, well-honed collection programs and skills, well-honed analytic skills and analytic rigor, professional attentiveness and persistence, ingrained organizational cooperation, effective interagency communication and information sharing, sufficiently dedicated resources, and well-developed target understanding (via in-depth study).

INTL 312  
**America’s Drone Campaign Since 9/11**  
Three Credit Hours  
Drones are used by both the civilian and military intelligence community as a new weapon in the fight against international terror. They serve as both collection platforms (Signals and Geospatial Intelligence) and weapons delivery systems. In this course, students will learn about the development and history of drones, their operational and tactical employment, and how they have changed the face of war. We will also explore the legal and ethical ramifications of their use against military targets and terrorists.

INTL 401  
**Intelligence Support to Military Operations**  
Three Credit Hours  
Since the days of Sun Tzu, intelligence collection and analysis has provided “decision advantage” to military commanders at both the tactical and strategic levels. In today’s complex battle space, good intelligence often spells the difference between victory and defeat. In this course, students will learn the importance of intelligence for the warfighter, the myriad collection techniques available today, and evolving doctrine as it relates to the collection and analysis of intelligence (e.g., the use of drones).

INTL 402  
**The Military Instrument of Power**  
Three Credit Hours  
A nation employs four instruments of power in order to achieve its strategic ends—Diplomacy (Political), Information, Military, and Economic. Often referred to as the DIME, these instruments provide a nation’s national leadership with a variety of unique capabilities that, when properly synchronized with one another, can support a national strategy. The purpose of this course is to improve the student’s fluency of the military instrument of power. We will investigate the range of considerations for the employment of military power once the decision has been made to do so. Thus, the goal of this class is to appreciate the theory, capabilities, and limitations for the employment of the military instrument of power and the role played by strategic and operational intelligence in the planning for and employment of military force.
INTL 403  Intelligence Capstone  Three Credit Hours
Prerequisite: INTL 301
Students apply the skills they have learned in prerequisite and other courses to develop an intelligence capstone project under the supervision of the instructor. The final written project will consist of research and analysis targeted toward a specified audience. A presentation of the project is required.

INTL 464  Intelligence Internship  Three Credit Hours
Prerequisite: Permission of Instructor
This course gives Intelligence and Security Studies students’ real-world work experience to complement the classroom education that they have previously received. Interns will learn about the variety of issues facing today’s intelligence community. Interns will receive three credits for every 120 hours they have successfully completed. This course may be repeated once for a total of six credits.

INTL 465  Special Topics in Intelligence  Three Credit Hours
Prerequisite: Permission of Instructor
An advanced seminar designed to examine in-depth topics in intelligence and security studies.
# INTELLIGENCE AND SECURITY STUDIES MAJOR
## BUSINESS INTELLIGENCE CONCENTRATION
### First Semester
<table>
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<th>Course Description</th>
<th>Code</th>
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<th>Hours</th>
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<td>Introduction to Intelligence Studies</td>
<td>INTL 201</td>
<td>3</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
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<td>3</td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
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<td>(211 may be taken either semester)</td>
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<td>(0,1)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Principles &amp; Practices of Cybersecurity</td>
<td>CSCI 227</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Advanced Analytics I</td>
<td>INTL 301</td>
<td>3</td>
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<tr>
<td>Modern Language</td>
<td></td>
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<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<td>(3,0)</td>
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<tr>
<td>Strand History</td>
<td>HISS 30x</td>
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<td>Management Information Systems</td>
<td>MGMT 421</td>
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### Senior Year
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
<td>(1,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Intelligence Support to Military Operations</td>
<td>INTL 401</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>++Business Intelligence Elective 2</td>
<td>BADM 3</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>+Upper Level Elective 1</td>
<td></td>
<td>3</td>
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<tr>
<td>Required Physical Education</td>
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<td>(0,1)</td>
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</table>

**Represents semester credit, lecture, and laboratory hours, in that order.**

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.**

+ Must be numbered at the 300 or 400 level.
++Choose from BANA 101, MGMT 431, BLAW 301, or SCMT 304
# INTELLIGENCE AND SECURITY STUDIES MAJOR
## BUSINESS INTELLIGENCE CONCENTRATION

### Second Semester

<table>
<thead>
<tr>
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<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
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<td><strong>Freshman Math</strong></td>
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<tr>
<td>Homeland Security</td>
<td>INTL 210</td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
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<td>102</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
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<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
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<tr>
<td>Advanced Analytics II</td>
<td>INTL 302</td>
<td>3 (3,0)</td>
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<tr>
<td>Intelligence Collections Systems &amp; Programs</td>
<td>INTL 310</td>
<td>3 (3,0)</td>
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<tr>
<td>Principles of Managerial Accounting</td>
<td>ACCT 202</td>
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<td>Modern Language</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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### JUNIOR YEAR

<table>
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<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>++Business Intelligence Elective 1</td>
<td>BADM</td>
<td>3 (3,0)</td>
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<td>****General Elective</td>
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<tr>
<td>***Humanities/Social Sciences Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>General Intelligence Elective 2</td>
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<td>3 (3,0)</td>
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<tr>
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### SENIOR YEAR

<table>
<thead>
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<tbody>
<tr>
<td>General Education Capstone</td>
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<td>3 (3,0)</td>
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<td>+Upper Level Elective 3</td>
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<td>3 (3,0)</td>
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<tr>
<td>+Upper Level Elective 4</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>+Upper Level Elective 5</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

***This requirement will be fulfilled by taking any course in the School of Humanities and Social Sciences, at the 200-level or above, outside of the student’s major or minor.

****Choose from ANTH 202, HONR 203, PSCI 102, PSYC 201, or SOCI 201

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDGS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
## INTELLIGENCE AND SECURITY STUDIES MAJOR
### CHINESE AREA STUDIES CONCENTRATION

### FRESHMAN YEAR

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
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<td>(2,0)*</td>
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<tr>
<td><strong>Freshman Science</strong></td>
<td></td>
<td>4</td>
<td>(3,2)</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
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<td>(3,0)</td>
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<tr>
<td>Introduction to Intelligence Studies</td>
<td>INTL 201</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to Chinese I</td>
<td>CHIN 101</td>
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<tr>
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<tr>
<td>1st Year Basic ROTC</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
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<th>Code</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/211</td>
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<tr>
<td>(211 may be taken either semester)</td>
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<td>0</td>
<td>(0,1)</td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Principles &amp; Practices of Cybersecurity</td>
<td>CSCI 227</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Advanced Analytics I</td>
<td>INTL 301</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Intermediate Chinese I</td>
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<td>2nd Year Basic ROTC</td>
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### JUNIOR YEAR

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<th>Hours</th>
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<tbody>
<tr>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Introduction to International Politics</td>
<td>PSCI 231</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Chinese Area Studies Elective 1</td>
<td></td>
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<tr>
<td>Chinese Area Studies Elective 2</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
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<td>(3,0)</td>
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<tr>
<td>Intelligence Support to Military Operations</td>
<td>INTL 401</td>
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<td>(3,0)</td>
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<tr>
<td>Chinese Area Studies Elective 5</td>
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<td>3</td>
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<tr>
<td>+Upper Level Elective 2</td>
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</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
<td>(0,1)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.

+Must be numbered at the 300 or 400 level
INTELLIGENCE AND SECURITY STUDIES MAJOR
CHINESE AREA STUDIES CONCENTRATION
Second Semester

FRESHMAN YEAR
Freshman Seminar ..................... FSEM 101 3 (3,0)
Freshman Linked Writing Intensive .... FSWI 101 3 (3,0)
**Freshman Math .......................... 3 (3,0)
Homeland Security ..................... INTL 210 3 (3,0)
Introduction to Chinese II .......... CHIN 102 3 (3,0)
1st Year Basic ROTC ..................... 102 1 (1,0)

SOPHOMORE YEAR
Strand Natural Science ................ NTSS 30x 3 (3,0)
Advanced Analytics II ............... INTL 302 3 (3,0)
Intelligence Collections Systems & Programs INTL 310 3 (3,0)
Intermediate Chinese II ............ CHIN 202 3 (3,0)
****General Elective ................... 3 (3,0)
2nd Year Basic ROTC .....................

JUNIOR YEAR
Strand Elective ....................... ELES 30x 3 (3,0)
East Asian Affairs ................. PSCI 337 3 (3,0)
Chinese Area Studies Elective 3 .... 3 (3,0)
Chinese Area Studies Elective 4 .... 3 (3,0)
General Elective ....................... 3 (3,0)
1st Year Advanced ROTC .............

SENIOR YEAR
General Education Capstone ............ GEND 422 3 (3,0)
Chinese Area Studies Elective 6 ...... 3 (3,0)
+Upper Level Elective 3 .............. 3 (3,0)
+Upper Level Elective 4 .............. 3 (3,0)
+Upper Level Elective 5 .............. 3 (3,0)
2nd Year Advanced ROTC .............

****Choose from ANTH 202, HONR 203, PSCI 102, PSYC 201, or SOCI 201

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### INTELLIGENCE AND SECURITY STUDIES MAJOR
#### COUNTERTERRORISM CONCENTRATION

#### First Semester

<table>
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<th>Course</th>
<th>Credits</th>
<th>Type</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1</td>
<td>(2,0)*</td>
</tr>
<tr>
<td><strong>Freshman Science</strong></td>
<td>4</td>
<td></td>
<td>(3.2)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>Introduction to Intelligence Studies</td>
<td>INTL 201</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td></td>
<td>(3.0)</td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
<td>(3.0)</td>
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<tr>
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<td>101 1</td>
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#### Sophomore Year

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<th>Hours</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1</td>
<td>(1.0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
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<td>(0.1)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>Principles &amp; Practices of Cybersecurity</td>
<td>CSCI 227</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>International Politics</td>
<td>PSCI 231</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>Advanced Analytics I</td>
<td>INTL 301</td>
<td>3</td>
<td>(3.0)</td>
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<tr>
<td>Modern Language</td>
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<td>(3.0)</td>
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#### Junior Year

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<th>Hours</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0</td>
<td>(1.0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
<td>(3.0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
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<td>(3.0)</td>
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<td>Domestic Terrorism</td>
<td>PSCI 310</td>
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<tr>
<td>Counterterrorism Elective 1</td>
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<td>(0.1)</td>
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<tr>
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#### Senior Year

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
<td>(1.0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
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<td>0</td>
<td>(0.1)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</tr>
</tbody>
</table>

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+Must be numbered at the 300 or 400 level
# INTELLIGENCE AND SECURITY STUDIES MAJOR
## COUNTERTERRORISM CONCENTRATION
### Second Semester

#### FRESHMAN YEAR
- **Freshman Seminar** ........................................... FSEM 101 3 (3,0)
- **Freshman Linked Writing Intensive** .................. FSWI 101 3 (3,0)
- **Freshman Math** ..........................................
- **Homeland Security** ...................................... INTL 210 3 (3,0)
- **Modern Language** ..........................................
- **1st Year Basic ROTC** .................................... 102 1 (1,0)

#### SOPHOMORE YEAR
- **Strand Natural Science** ................................ NTSS 30x 3 (3,0)
- **Advanced Analytics II** .................................. INTL 302 3 (3,0)
- **Intelligence Collections Systems & Programs** ...... INTL 310 3 (3,0)
- **International Terrorism** ................................. PSCI 342 3 (3,0)
- **Modern Language** ..........................................
- **2nd Year Basic ROTC** .....................................

#### JUNIOR YEAR
- **Strand Elective** .............................................. ELES 30x 3 (3,0)
- **General Elective** ........................................... 3 (3,0)
- **Humanities/Social Sciences Elective** .............. 3 (3,0)
- **Counterterrorism Elective 2** ........................... 3 (3,0)
- **General Intelligence Elective 1** ....................... 3 (3,0)
- **1st Year Advanced ROTC** .................................

#### SENIOR YEAR
- **General Education Capstone** .......................... GEND 422 3 (3,0)
- **General Intelligence Elective 2** ....................... 3 (3,0)
- **+Upper Level Elective 3** ............................... 3 (3,0)
- **+Upper Level Elective 4** ............................... 3 (3,0)
- **+Upper Level Elective 5** ............................... 3 (3,0)
- **2nd Year Advanced ROTC** ...............................

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****Choose from ANTH 202, HONR 203, PSCI 102, PSYC 201, or SOCI 201

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### INTELLIGENCE AND SECURITY STUDIES MAJOR

#### GENERAL CONCENTRATION

**First Semester**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
<th>Units</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
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<td>(2,0)*</td>
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<tr>
<td><strong>Freshman Science</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Introduction to Intelligence Studies</td>
<td>INTL 201</td>
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<td>(3,0)</td>
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<td>Modern Language</td>
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**Second Semester**

<table>
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<tr>
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<td>Sophomore Seminar in Principled Leadership</td>
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<td>ENGS 30x</td>
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<td>CSCI 227</td>
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<td>(3,0)</td>
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<td>Advanced Analytics I</td>
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<tr>
<td>Modern Language</td>
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**Third Semester**

<table>
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<th>Course Title</th>
<th>Code</th>
<th>Units</th>
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<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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**Fourth Semester**

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<th>Course Title</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
<td>(1,0)</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
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<td>General Intelligence Elective 7</td>
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<td>Intelligence Support to Military Operations</td>
<td>INTL 401</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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<td></td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements."
## Intelligence and Security Studies Major
### General Concentration

#### Second Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
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<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
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#### Sophomore Year

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<tr>
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<td>Advanced Analytics II</td>
<td>INTL 302</td>
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<tr>
<td>Intelligence Collections Systems &amp; Programs</td>
<td>INTL 310</td>
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<tr>
<td>Modern Language</td>
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#### Junior Year

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<tr>
<td><strong>General Elective</strong></td>
<td></td>
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<td>(3,0)</td>
</tr>
<tr>
<td>***Humanities/Social Sciences Elective</td>
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#### Senior Year

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<th>Course Description</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>General Education Capstone</td>
<td>GEND 422</td>
<td>3</td>
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<td>General Intelligence Elective 8</td>
<td></td>
<td>3</td>
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<tr>
<td>+Upper Level Elective 4</td>
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<tr>
<td>+Upper Level Elective 5</td>
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<td>(3,0)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
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</table>

***This requirement will be fulfilled by taking any course in the School of Humanities and Social Sciences, at the 200-level or above, outside of the student’s major or minor.***

****Choose from ANTH 202, HONR 203, PSCI 102, PSYC 201, or SOCI 201

**Must be numbered at the 300 or 400 level.**

**REQUIRED FOR GRADUATION:** 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### INTELLIGENCE AND SECURITY STUDIES MAJOR
#### MILITARY INTELLIGENCE CONCENTRATION

**First Semester**

<table>
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<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tr>
<td>First Year Experience</td>
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<tr>
<td><strong>Freshman Science</strong></td>
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<td>4</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Introduction to Intelligence Studies</td>
<td>INTL 201</td>
<td>3</td>
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<td>Modern Language</td>
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<tr>
<td>General Elective</td>
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<td>3</td>
<td>(3,0)</td>
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<tr>
<td>1st Year Basic ROTC</td>
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<td>101</td>
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**Second Semester**

<table>
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<th>Code</th>
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<tr>
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<td>LDRS 201/211</td>
<td>1</td>
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<tr>
<td><strong>Freshman Science</strong></td>
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<td>(3,2)</td>
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<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
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<tr>
<td>Principles &amp; Practices of Cybersecurity</td>
<td>CSCI 227</td>
<td>3</td>
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<td>Advanced Analytics I</td>
<td>INTL 301</td>
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**Junior Year**

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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Military Intelligence Elective 3</td>
<td></td>
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<td>General Intelligence Elective 1</td>
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<td>General Elective</td>
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<tr>
<td>Required Physical Education</td>
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**Senior Year**

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<th>Course Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
<td>(1,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Military Intelligence Elective 5</td>
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<tr>
<td>Intelligence Support to Military Operations</td>
<td>INTL 401</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>+Upper Level Elective 1</td>
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<td>3</td>
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</tr>
<tr>
<td>+Upper Level Elective 2</td>
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<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
<td>(0,1)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.

+Must be numbered at the 300 or 400 level
INTELLIGENCE AND SECURITY STUDIES MAJOR
MILITARY INTELLIGENCE CONCENTRATION
Second Semester

FRESHMAN YEAR

Freshman Seminar ........................................ FSEM 101 3 (3,0)
Freshman Linked Writing Intensive.................. FSWI 101 3 (3,0)
**Freshman Math .............................................. 3 (3,0)
Homeland Security ........................................... INTL 210 3 (3,0)
Modern Language .............................................. 3 (3,0)
1st Year Basic ROTC ........................................... 102 1 (1,0)

SOPHOMORE YEAR

Strand Natural Science .................................... NTSS 30x 3 (3,0)
Advanced Analytics II ..................................... INTL 302 3 (3,0)
Intelligence Collections Systems & Programs .......... INTL 310 3 (3,0)
Military Intelligence Elective 2 ......................... 3 (3,0)
Modern Language .............................................. 3 (3,0)
2nd Year Basic ROTC ...........................................

JUNIOR YEAR

Strand Elective ............................................ ELES 30x 3 (3,0)
Military Intelligence Elective 4 .......................... 3 (3,0)
General Intelligence Elective 2 .......................... 3 (3,0)
****General Elective ........................................... 3 (3,0)
***Humanities/Social Sciences Elective ......... 3 (3,0)
1st Year Advanced ROTC ....................................

SENIOR YEAR

General Education Capstone ......................... GEND 422 3 (3,0)
Military Intelligence Elective 6 ....................... 3 (3,0)
+Upper Level Elective 3 ................................ 3 (3,0)
+Upper Level Elective 4 ................................ 3 (3,0)
+Upper Level Elective 5 ................................ 3 (3,0)
2nd Year Advanced ROTC ...................................

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****Choose from ANTH 202, HONR 203, PSCI 102, PSYC 201, or SOCI 201

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Modern Languages, Literatures and Cultures

Department Head: Toubiana
Professors: Bahk, Skow, Toubiana, Urroz, Fernández-Medina
Associate Professors: Emm, Hellin-Garcia, Roca-Martinez, Segle, Smith, Strobbe
Assistant Professors: Tsai

Command of foreign languages, ever a component of traditional liberal-arts schooling, has become a vital asset in today’s global society and economy. The ability to communicate effectively with the millions of non-English speakers in the realms of commerce, government, science, and the arts serves crucial national interests. Cultural sensitivity, heightened through language study, furthers our relations with the world.

The language courses in the General Education curriculum cultivate four basic skills—reading, writing, listening, and speaking—with emphasis on communicative proficiency. The language minor enhances competence in the basic skills and allows for specialization in business practice, contemporary society, or literature. The language major hones fluency and imparts a detailed knowledge of life and letters.

Students may pursue a B.A. in Modern Languages in French, German or Spanish. The major is most flexible and has proven a sound preparation for coveted duty assignments, choice career opportunities in both public and private sectors, and graduate study in philology, business, law, or medicine. Students who excel are eligible for induction into the following national honor societies: Pi Delta Phi (French), Delta Phi Alpha (German), and Sigma Delta Pi (Spanish).

In addition, students may pursue a B.A. in Modern Languages with Teaching Specialization in French, German or Spanish. The curriculum provides a broad background in the specified language, culture and literature to prepare the student to teach at the secondary school level. The student must make a formal application for admission to the Zucker Family School of Education for the Internship in Teaching as outlined in this catalog.

Please refer to the following information regarding major GPA calculations:
For the BA in Modern Languages, undergraduate courses taken at The Citadel in the respective language track and its corresponding prefix—FREN, GERM, or SPAN—will count towards the major GPA. For BA in Modern Languages with Teaching Track, undergraduate courses taken at The Citadel in the respective language track and its corresponding prefix—FREN, GERM, or SPAN—and in Education (EDUC) will count towards the major GPA.

Plan of Undergraduate Major
Thirty hours of coursework in the language of the student’s major starting at 201 or higher, whichever is more advanced, are required for the major. These include 201, 202, 301, 302, and at least one 400-level course. In ad-
dition, students must engage in one of the following high-impact “Signature Experiences”: Study Abroad (203, 204, 390, or 391), an Internship (numbers differ by language), a Capstone Course in the Major (MLNG 499) or an additional 400-level course in the language of the major. The remaining twelve hours must be selected from the non-sequenced courses in the major language (300- and 400-level). Up to 9 credit hours towards the major may be earned in an approved study abroad program.

Language students pursuing a double major will have the opportunity to count 1 course (3 credit hours) from another department. This course should be related to the history, the civilization or the culture of the target language in which the student is majoring. The course must be approved by the Head of the Department of Modern Languages, Literatures and Cultures. Therefore, after completion of the core-curriculum language requirement, at least 27 credit hours (9 courses) must be taken from the language major, and 3 credit hours (1 course) could be taken from outside the Department of Modern Languages, Literatures and Cultures.

**Minor in Chinese, French, German, or Spanish**

*Objectives:*

The minor in Chinese, French, German, or Spanish builds on skills developed in the elementary/intermediate sequence, taking the student beyond practical proficiency to more sophisticated modes of discourse and greater understanding of social norms.

*Competencies, Knowledge, or Skills to Be Achieved:*

Employing the latest technology, instruction in advanced conversation and composition expands and refines expression in social and professional contexts. Course in the Department’s various summer study-abroad programs offer total immersion and highly individualized tutorials. Courses in civilization and culture, business language, and literature, in addition to promoting greater fluency, provide an introduction to areas of specialization within the discipline.

Many language majors, recognizing the considerable advantages of versatility in the marketplace, now declare a minor in another language.

*Structure of the Minor (Chinese, French, German & Spanish)*

1. **Required Courses:** 5 courses after 201
   a. 202
   b. 301 or 302 (in the chosen language)
2. **c. Three Electives** Advanced Upper level courses in the chosen language taken at The Citadel or in a Citadel Study-Abroad program,

   (at least one 400-level course in the chosen language)

*Total Credit Hours Required:* 15 hours in one language after 201 at least 9 of which must be completed at The Citadel after the point of Language placement exam.
The Minor in East Asian Studies

Objectives: The minor in East Asian Studies provides well-qualified upperclassmen the opportunity to develop a secondary field of expertise in a discipline of vital national interest.

Administration: The minor in East Asian Studies is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

Structure of the Minor:

Fifteen credit hours, of which six hours are in language:
- either CHIN 101/102, Intensive Introduction to Chinese I and II,
  JAPN 101/102, Intensive Introduction to Japanese I and II,
- or
  KORE 101/102, Intensive Introduction to Korean I and II;

at least three hours in history, chosen from:
- HIST 357, History of Premodern China,
- HIST 358, History of Modern China,
- HIST 359, Silk Roads and Nomadic Empires,
- HIST 360, History of Japan;
- HIST 365, Special Topics in Non-Western History

and at least three hours in political science, chosen from:
- PSCI 337, East Asian Affairs,
- PSCI 338, Southeast Asian Affairs,
- PSCI 433, Topics in International Politics: Northeast Asian Affairs;

and a three-hour elective from either history or political science, chosen from the courses listed above.
Prerequisite: Because Chinese is the only Asian language offered through 202 at The Citadel, registrants for Japanese and Korean (Category IV languages by the Defense Language Institute’s scale of hours required for mastery), must have completed the core requirement in Chinese (Category IV language), French, German, or Spanish (Category II languages).

Competencies, Knowledge, or Skills to Be Achieved in the Language Courses: The intensive-introduction sequences develop basic practical communication through standard cognitive-code methodology. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom, and culture cultivate the four skills critical to foreign-language mastery: aural comprehension, oral expression, reading comprehension, and composition. By the end of the course, the diligent student will be able to converse intelligibly in general social situations, recognize and reproduce the phonetic alphabets and most-used characters of the pictographic writing systems, comprehend the gist of simple texts with the aid of a dictionary, and write brief summaries of those texts.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

This minor is jointly administered by the Department of Modern Languages, Literatures and Cultures or the Department of Political Science.

Credit and Scholarships for Study Abroad

The Citadel currently offers study-abroad programs in French and Spanish. Credit may be granted for courses in French, German, and Spanish taken abroad at other schools during the summer or the regular school year. The Albert E. Gurganus Summer Stipend ($1,000), the Deutscher Brüderlicher Bund Scholarship ($1,500), and the John Alexander Summer Scholarship ($2,000) assist qualified German majors with summer-study projects in Europe. Monetary awards sponsored by the American Society of the French Legion of Honor may be available for qualified French majors and minors participating in The Citadel’s Summer Study in France. Students who wish to study language abroad will be expected to show evidence of competence in the language classes they have completed. Such work must have prior approval from the Head of the Department of Modern Languages, Literatures and Cultures.

Special Courses

JAPN 101/102  Intensive Introduction to Japanese I and II  Six Credit Hours
Prerequisite: CHIN, FREN, GERM, or SPAN 202
Development of basic practical communication through standard cognitive-code methodology. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom. Students will learn to pronounce, read, and write the two syllabaries (Hiragana and Katakana) and ca. 200 Chinese characters (Kanji).
KORE 101/102  *Intensive Introduction to Korean I and II*  
Six Credit Hours  
Prerequisite: CHIN, FREN, GERM, or SPAN 202  
Development of basic practical communication through standard cognitive-code methodology. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom. Students will learn to pronounce, read, and write the Hangul phonetic alphabet.

MLNG 410  *European Literary Movements, 12th Century to 1789*  
Three Credit Hours  
An extensive, in-depth survey of influential literary movements on the Continent, beginning with the High Middle Ages and early Italian Renaissance, continuing through the late Renaissance, the Golden Age in Spain, the Classical Age, up to the end of the Age of Enlightenment. While the focus of the course will be on major writers and representative works of each period (e.g., *La Chanson de Roland*, Boccaccio, Cervantes, Racine, Rousseau, Goethe), the significant intercultural borrowings and literary and artistic cross-fertilization among the intelligentsia of France, Germany, Italy, and Spain will be studied and put in their proper sociological contexts. No prerequisite.

MLNG 420  *European Literary Movements, 1789-Present*  
Three Credit Hours  
This course begins at the dawn of the Romantic movement on the Continent and continues through the important movements of Realism, Naturalism, Symbolism, Surrealism, and Existentialism. Significant works of writers such as Hugo, Flaubert, Zola, Galdós, Rilke, Mann, Proust, D’Annunzio, Pirandello, Sartre, and Hesse, among others, will be studied against the background of their times. No prerequisite.

MLNG 455  *Theory and Practice of Foreign Language Teaching*  
Three Credit Hours  
Prerequisite: Language teaching track students need the approval of the Dean of the Zucker Family School of Education  
This course seeks to address the theory and practice of foreign language teaching. It is designed specially to help students who are interested in the teaching profession and becoming future language teachers. The aim is to develop understanding with the contemporary research-based views of language teaching and learning. Students will become familiar with professional organizations, language policies, foreign language national standards, and first and second language acquisition theories among others. Students will also learn how to incorporate different modes of communication, learning strategies and styles, and culture in the classroom. They will also reflect on how to address diverse needs such as motivation, aptitude, diversity and learning disabilities. Students will also design lesson plans and explore different assessment techniques to meet students’ needs and goals.

LING 300  *Introduction to Linguistics*  
Three Credit Hours  
Open to all students.  
A survey of the history of languages and linguistics and a study of the components of human speech: phonetics, phonology, morphology; grammar, syntax, semantics; semiology, writing, literature. No prerequisite.
Chinese Language Course Descriptions

CHIN 101  *Introduction to Chinese I*  Three Credit Hours
This course is designed to introduce students to modern Mandarin Chinese. It begins with an introduction to the sound system of Mandarin Chinese (i.e., Pinyin) and then moves onto basic skills in listening, speaking, reading, and writing. The course also aims to introduce students to a variety of aspects of Chinese culture. By the end of the semester, students are expected to (a) have a fairly good pronunciation, (b) recognize and write approximately 200 to 250 characters, and (c) carry out simple conversations. Lab work required.

CHIN 102  *Introduction to Chinese II*  Three Credit Hours
Prerequisite: CHIN 101 or placement
This course aims to further develop students’ fundamental four language skills, which will be emphasized and learned in communicative contexts. Students are expected to actively participate in class by engaging in interactive activities, and reading and writing practices. A variety of aspects of everyday Chinese culture will be introduced through these activities. Lab work required.

CHIN 201  *Intermediate Chinese I*  Three Credit Hours
Prerequisite: CHIN 102 or placement
This course is designed to help students reach intermediate-level communicative skill in spoken and written Chinese. It also aims to establish a solid base for more advanced language learning. By increasing students’ vocabulary and knowledge of sentence patterns, the course focuses on speaking and writing in coherent and well-formed paragraphs. By the end of the semester, students are expected to (a) carry out fluent conversations about daily activities and (b) write compositions of 200 to 250 characters on subjects of their daily life and personal experiences. Lab work required.

CHIN 202  *Intermediate Chinese II*  Three Credit Hours
Prerequisite: CHIN 201 or placement
This course provides intermediate-level training in spoken and written Chinese in cultural contexts, based on language skills developed in CHIN 201. The focus of this course is mainly on complex grammatical patterns, discourse characteristics, and discussions of various cultural topics.

CHIN 101/102  *Intensive Introduction to Chinese I and II*  Six Credit Hours
Development of basic practical communication through standard cognitive-code methodology. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom. Students will learn to transcribe in Pinyin and pronounce all syllables of the phonetic system of Modern Standard Chinese (Mandarin in Beijing dialect) and to recognize and write ca. 500 characters.

CHIN 201/202  *Intensive Intermediate Chinese I and II*  Six Credit Hours
Prerequisite: CHIN 102 (or equivalent)
Students continue to develop practical communication skills and use of basic structures through speaking, reading, writing, and listening. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom. The vocabulary for reading and writing increases to 1,000 characters.
CHIN 301  Advanced Speaking, Reading, and Writing I  Three Credit Hours  
Prerequisite: CHIN 202 (or equivalent)  
Required course for all Chinese minors.  
The aim of this course is to continually improve the students’ reading, writing, speaking, and listening skills with extra emphasis placed on oral proficiency. It also intends to deepen students’ knowledge of Chinese Language and Culture. Conversational skills are developed through frequent discussions and group related activities. Skills are refined through speaking and writing activities. Use of audiovisual materials; class taught in Chinese.

CHIN 302  Advanced Speaking, Reading, and Writing II  Three Credit Hours  
Prerequisite: CHIN 202 (or equivalent)  
Required course for all Chinese minors.  
Detailed study, analysis, and practice of written Chinese based upon selected texts. The aim of this course is to continually improve the students’ reading, writing, speaking, and listening skills with extra emphasis placed on writing proficiency. It also intends to deepen students’ knowledge of the Chinese Language and Culture. Use of audiovisual materials; class taught in Chinese.

CHIN 303  Chinese Civilization  Three Credit Hours  
Prerequisite: CHIN 202  
A broad survey of Chinese civilization and society with emphasis on values, thought, institutions, and art through selected topics that link various periods in China’s past with the present. By the end of this course, students will have a better knowledge and comprehension of Chinese history and society and will be able to define the conceptions through which the Chinese have identified their cultural heritage. Use of audiovisual materials; class taught in Chinese.

CHIN 307  Business Chinese  Three Credit Hours  
Prerequisite: CHIN 202  
Introduction to the language and culture of economics, banking, commerce, sales, import-export, and corporations in the Chinese speaking world. The course is designed to simulate real business environments. By the end of the semester, students will have a basic knowledge of how to function in the business Chinese world. Use of audiovisual materials; class taught in Chinese.

CHIN 450  Undergraduate Seminar: Studies in Special Topics  Three Credit Hours  
Prerequisite: CHIN 202  
A comprehensive study and interpretation of a major author, work, period, movement or some other literary, linguistic, or cultural topic. This course may be repeated provided that the subtitle is not duplicated. Class taught in Chinese.

Language and literature courses numbered 300 and above in a given language have, unless otherwise stated, 202 or 204 in that language as a prerequisite.
French Language and Literature Course Descriptions

FREN 101  
*Elementary French Communication I*  
Three Credit Hours  
Basic functional communication on daily activities and immediate environment in the present. Emphasis on understanding, speaking, reading, and writing simple French; pronunciation; and vocabulary expansion. Cross-cultural similarities and differences stressed. Course conducted primarily in French. Language laboratory required.

FREN 102  
*Elementary French Communication II*  
Three Credit Hours  
Prerequisite: FREN 101 or placement  
Continued development of basic communication skills: understanding, speaking, reading, and writing in increasingly more complex situations, including pronouns, descriptions, and actions in the past and future, and conjectures. Cross-cultural similarities and differences also studied. Course conducted primarily in French. Language laboratory required.

FREN 201  
*Intermediate French Communication*  
Three Credit Hours  
Prerequisite: FREN 102 or placement  
Functional use of French in different sociocultural contexts. Extensive oral and written practice with vocabulary and structures vital to expressing increasingly complex ideas. Course conducted in French. Language laboratory required.

FREN 202  
*French Reading, Conversation, and Composition*  
Three Credit Hours  
Prerequisite: FREN 201 or placement  
Systematic development of reading and writing skills through cultural and literary texts. Oral communication skills development through discussions of readings and audiovisual material. Course conducted in French.

FREN 203  
*Intermediate French Composition and Conversation*  
Three Credit Hours  
Prerequisite: FREN 102 (or equivalent) and permission of instructor  
An intensive, systematic study of grammar and development of speaking and writing skills through readings, discussions, and compositions. May be taken in lieu of FREN 201. Offered only during summer program in Europe.

FREN 204  
*Intermediate French Culture*  
Three Credit Hours  
Prerequisite: FREN 102 (or equivalent) and permission of instructor  
Participation in cultural activities (excursions, visits to museums, theatrical performances, movies, etc.) required. Weekly journal of cultural and cross-cultural experiences. May be taken in lieu of FREN 202. Offered only during summer program in Europe.

FREN 301  
*Advanced French Conversation*  
Three Credit Hours  
Prerequisite: FREN 202  
Development of skill and ease in speaking correct, idiomatic French at an advanced level. Audio and video cassettes used for aural comprehension. Pronunciation exercises. Not open to students with native-level proficiency, but required of all French majors and minors.
FREN 302  *Advanced French Composition*  Three Credit Hours
Prerequisite: FREN 202
Detailed study, analysis, and practice of written French based upon selected texts. Study of grammar, syntax, and vocabulary as necessary to achieve coherent, idiomatic compositions related to the readings. Required of all French majors and minors.

FREN 303  *French Civilization*  Three Credit Hours
Prerequisite: FREN 202
A broad survey of French culture (architecture, painting, sculpture, music, cuisine, etc.) and society from prehistoric times to World War I.

FREN 304  *Survey of Non-European Francophone Literature and Civilization*  Three Credit Hours
Prerequisite: FREN 202
A survey of Canadian, African and Caribbean Francophone literature and civilization from early twentieth century to the present.

FREN 307  *Business French*  Three Credit Hours
Prerequisite: FREN 202 or permission of instructor
Introduction to the language of economics, banking, commerce, correspondence, sales, import-export, transportation, and corporations in the French-speaking world.

FREN 390  *Special Topics in Contemporary French Culture*  Three Credit Hours
Prerequisite: FREN 202 and permission of instructor
A survey of current trends in art, architecture, music, cuisine, film, and literature, as well as in popular culture, in France. Visits to museums, concerts, theater, etc. Weekly journal of cultural and cross-cultural experiences. Offered only during summer program in Europe.

FREN 391  *Special Topics in Contemporary French Usage*  Three Credit Hours
Prerequisite: FREN 202
A course designed to acquaint students with the French of today as a language in evolution; particular attention to current usage of slang, jargon, and neologisms. Offered only during summer program in Europe.

FREN 421  *French Literature of the Middle Ages and Renaissance*  Three Credit Hours
Prerequisite: FREN 202
A study of representative works composed in the Middle Ages and Renaissance in modern French translation.
FREN 422  French Classicism and Enlightenment  
Prerequisite: FREN 202  
A study of the principal writers of the seventeenth and eighteenth centuries in France. Major figures: Molière, Corneille, Racine, Pascal, La Fontaine, La Bruyère, Voltaire, Diderot, Rousseau.

FREN 423  French Literature of the Nineteenth Century  
Prerequisite: FREN 202  
A study of the works representative of Romanticism, Realism, Naturalism, and Symbolism, with special emphasis on developments in the novel and lyric poetry.

FREN 424  French Literature of the Twentieth Century  
Prerequisite: FREN 202  
A study of the major writers and literary movements—Surrealism, Modernism, Existentialism, Theatre of the Absurd, Nouveau Roman—from the early 1900s through the twentieth century.

FREN 450  Undergraduate Seminar: Studies in Special Topics  
Prerequisite: FREN 202  
Investigation and analysis of the works of one notable French author or of some other literary, linguistic, or cultural topic. The significance of the topic studied to Francophone civilization and/or literature in general will be emphasized. This course may be repeated provided that the subtitle is not duplicated.

FREN 490  Advanced Grammar, Syntax, and Translation  
Prerequisite: FREN 302 or permission of instructor  
Development of linguistic skills necessary for fluent idiomatic writing in French, from colloquial to more sophisticated styles, including translation from English to French.

German Language and Literature Course Descriptions

GERM 101  Elementary German I  
Introduction to vocabulary, grammar, syntax, idiom, and culture. Development of skills critical to foreign-language mastery: listening, speaking, reading, and writing. Course conducted primarily in German. Lab work required.

GERM 102  Elementary German II  
Prerequisite: GERM 101 or placement  
Progress in vocabulary, grammar, syntax, and idiom. Increased emphasis on student communication. Course conducted primarily in German. Lab work required.
GERM 201  Intermediate German I  Three Credit Hours
Prerequisite: GERM 102 or placement
Completion of basic grammar and syntax. Increased emphasis on reading, idiomatic usage. Course conducted in German. Lab work required.

GERM 202  Intermediate German II  Three Credit Hours
Prerequisite: GERM 201 or placement
Expansion and fine tuning of grammar. Literary texts serve as basis for discussion and substantial composition. Course conducted in German. Upon successful completion of the elementary and intermediate courses, students will be functional in a German-speaking country, i.e., able to converse socially, read newspapers and magazines, enjoy a movie, etc.

GERM 203 and  Intermediate German I Abroad  Three Credit Hours
GERM 204  Intermediate German II Abroad  Each Semester
Prerequisite: GERM 102 (or equivalent) and permission of section chief
Taken in lieu of GERM 201 and 202. Intensive study of grammar, development of communicative skills while in residence in Germany, Austria, or Switzerland.

GERM 301  Advanced German Conversation  Three Credit Hours
Prerequisite: GERM 202/204 with a grade of “C” or better or permission of the department head
Not open to students with native-level proficiency, but required of all German majors and minors. Expansion and practice of communicative skills in situational contexts from colloquial to formal. Extensive use of sound and video recordings. Student interviews and presentations.

GERM 302  Advanced German Composition  Three Credit Hours
Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head
Required of all German majors and minors. Practice in formal writing: reviews, essays, correspondence. Study of styles of writing in exemplary texts. Practical experience with translation.

GERM 303  German Civilization and Culture  Three Credit Hours
Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head
Survey of civilization and culture up to 1945, with emphasis on values, thought, institutions, and art. Films, slides, recordings.

GERM 304  Postwar German Society and Culture  Three Credit Hours
Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head
Study of society and culture since 1945, focusing on political division and reunification, economy, and art (particularly film).
GERM 305  
**Events and Issues in German Media and Popular Culture**  
Three Credit Hours

Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head

An intensive study of events and issues as reflected in German media and popular culture. Newspapers, magazines, web sites, film, television, radio, music provide students with German perspective on major events in twentieth century world history. Topics will vary but may include WWI, National Socialism, the Holocaust, the Vietnam War, the Cold War, Divided Germany, and the Environment.

GERM 306  
**Encountering Cultural Texts: German for Discussion and Critique**  
Three Credit Hours

Prerequisite: GERM 202 or permission of the instructor

This course focuses on advanced language skills for higher-order thinking in German. Students will read, analyze, discuss and write about concrete and abstract themes encountered in diverse genres, modes and styles of representation. The course provides experience with a broad array of German-language literary and cultural texts that may included literature, opera, film and non-fiction. Recommended as preparation for 400-level German courses. Taught in German.

GERM 307  
**Business German: Practical Applications**  
Three Credit Hours

Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head

Serves as a business elective. Acquisition of practical knowledge of German industry and economics. Study and practice of related vocabulary, and the fundamentals of business correspondence. Preparation for the *Zertifikat Deutsch für den Beruf*, an internationally recognized business German exam.

GERM 308  
**Business German: Current Issues**  
Three Credit Hours

Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head

Study of current issues in the German business world through extensive readings using the internet and current business publications. Practice in business correspondence and business situations. Preparation for the *Zertifikat Deutsch für den Beruf*, an internationally recognized business German exam.

GERM 390  
**Special Topics in Language and Literature**  
Three Credit Hours

Prerequisite: GERM 202/204 and permission of section chief

Study of language and literature while in residence in Germany, Austria, or Switzerland. Emphasis on current usage in speech and print. Discussion and composition based on activities and readings.

GERM 391  
**Special Topics in Landeskunde**  
Three Credit Hours

Prerequisite: GERM 202/204 and permission of section chief

Study of society and culture while in residence in Germany, Austria, or Switzerland. Emphasis on interaction with host community. Theater, concerts, films, excursions, and museum visits. Special projects tailored to student need and interest.
GERM 421  *German Literature up to the Reformation*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Survey of significant authors, works, genres, and movements from the earliest monastic texts through Luther’s age, examined in their social and cultural context.

GERM 422  *German Literature from the Baroque to Classicism*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Survey of significant authors, works, and genres from the period of the baroque, the Enlightenment, *Sturm und Drang*, and classicism.

GERM 423  *German Literature of the Nineteenth Century*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Survey of significant authors, works, genres, and movements, with emphasis on romanticism, *Biedermeier*, *Junges Deutschland*, poetic realism, and naturalism.

GERM 424  *German Literature of the Twentieth Century*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Study of select authors, e.g., Schnitzler, Thomas Mann, Brecht, Grass, and Plenzdorf.

GERM 426  *Modern Austrian Literature*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Survey of select authors since 1900, e.g. Bachmann, Bernhard, Musil, Frischmuth, Jelinek.

GERM 427  *Literature of German-Speaking Switzerland*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Survey of select authors, e.g. Gotthelf, Keller, Meyer, Frisch, Dürrenmatt, Muschg, Bichsel.

GERM 450  *Undergraduate Seminar: Studies in Special Topics*  Three Credit Hours

- **Prerequisite:** GERM 202/204 with grade of “C” or better or permission of department head
- Study of a single author or select topic in Germanic philology or culture. Students may register for this course more than once if the topic has changed.
GERM 490  Internship in German Language and Culture  Three Credit Hours

Prerequisite: GERM 202/204 with grade of “C” or better or permission of department head

Internships or service opportunities with local entities (e.g., businesses, government agencies, non-profit organizations) or in German-speaking countries to combine academic training with professional experience. This course may be taken more than once.

Spanish Language and Literature Course Descriptions

SPAN 101  Elementary Spanish Communication I  Three Credit Hours

Emphasis on practical, oral communication. Basic elements of speaking, listening, reading, and writing. Initial presentation of Hispanic culture. Mandatory practice in the language laboratory. Course conducted primarily in Spanish.

SPAN 102  Elementary Spanish Communication II  Three Credit Hours

Prerequisite: SPAN 101 or placement

Further emphasis on oral communication. A continuation of speaking, listening, reading, and writing skills and study of Hispanic culture. Mandatory practice in the language laboratory. Course conducted primarily in Spanish.

SPAN 201  Intermediate Spanish Communication  Three Credit Hours

Prerequisite: SPAN 102 or placement

Stress on oral communication. A continuation of speaking, listening, reading, and writing skills and study of Hispanic culture. Completion of the verb system. Mandatory practice in the language laboratory. Course conducted primarily in Spanish.

SPAN 202  Spanish Conversation, Reading, and Composition  Three Credit Hours

Prerequisite: SPAN 201 or placement

Extensive oral and written communication based on readings and videos of Hispanic literature and culture. Course conducted primarily in Spanish.

SPAN 203  Intermediate Spanish Composition and Conversation  Three Credit Hours

Prerequisite: SPAN 102 (or equivalent) and permission of instructor

Intensive course in oral and written Spanish; to be taken in lieu of SPAN 201. Offered only during Maymester or summer program in Spain or Spanish America.

SPAN 204  Intermediate Hispanic Culture  Three Credit Hours

Prerequisite: SPAN 201 (or equivalent) and permission of instructor

Participation in cultural activities (excursions, visits to museums, theatrical performances, bullfights, etc.) required. Weekly journal of cultural and cross-cultural experiences. Taken in lieu of SPAN 202. Offered only during Maymester or summer program in Spain or Spanish America.
SPAN 301  *Advanced Spanish Conversation*  Three Credit Hours  
Prerequisite: SPAN 202  
Conversational skills are developed through frequent discussions and group related activities, with an emphasis on oral proficiency. These skills will be further refined through frequent writing activities. Course conducted in Spanish. Not open to students with native-level proficiency, but required of all other Spanish majors and minors.

SPAN 302  *Advanced Spanish Composition*  Three Credit Hours  
Prerequisite: SPAN 202  
An intense and complete overview of Spanish grammar including a review of all tenses and a thorough analysis of the subjunctive. These elements will be emphasized through frequent writing exercises, with the ultimate goal of producing grammatically correct Spanish. Course conducted in Spanish. Required of all Spanish majors and minors.

SPAN 303  *Readings in Spanish Civilization*  Three Credit Hours  
Prerequisite: SPAN 202  
A broad survey of the culture of Spain (architecture, painting, sculpture, music, cuisine, etc.) and society from prehistoric times to the present. Use of audiovisual materials.

SPAN 304  *Readings in Spanish American Civilization*  Three Credit Hours  
Prerequisite: SPAN 202  
A general survey of the culture of Spanish America from pre-Columbian times to the present (architecture, painting, sculpture, music, cuisine, etc., as well as social and political developments). Use of audiovisual materials.

SPAN 305  *Introduction to the Study of Hispanic Literature*  Three Credit Hours  
Prerequisites: Completion of SPAN 202 or 204 and SPAN 302  
A preparatory course for students intending to pursue studies in Hispanic literature. Selected readings will provide the basis for stylistic and textual analysis and understanding of the structure of literary works. The historical development of genres and the technical vocabulary necessary for critical analysis will be included. Required of all Spanish majors and minors.

SPAN 306  *Medical Spanish*  Three Credit Hours  
Prerequisites: SPAN 202  
Introduction to the study of specific medical Spanish vocabulary and terminology related to the field of medicine and cultural issues related to communicative interactions with Spanish-speaking patients in a clinical setting. This course is specially geared to develop students’ communication skills for serving in the medical profession. The course explores real-life situations that medical personnel might encounter such as patient-doctor interviews, health issues, general check-ups, physical examinations, medical emergencies, etc. The course will also explore Hispanic cultural perspectives, practices and products related to healthcare. It will help students to develop intercultural communicative competence to better interact with and assist the Hispanic community. This course is especially recommended for students who will be working in the field of medicine.
SPAN 307  Business Spanish  Three Credit Hours
Prerequisites: Completion of SPAN 202 or 204 and SPAN 302
Introduction to the language and culture of economics, banking, commerce, sales, import-export, and corporations in Spain and Spanish America.

SPAN 308  Spanish Business Correspondence  Three Credit Hours
Prerequisites: Completion of SPAN 202 or 204 and SPAN 302
An extensive overview and practice of written commercial communications in Spanish.

SPAN 309  Spanish for Law Enforcement  Three Credit Hours
Prerequisites: Completion of SPAN 202 or 204 and SPAN 302
Introduction to the study of the Spanish language and culture specifically related to the law enforcement field. This course explores real-life situations that law enforcement personnel might encounter such as robberies, assault, crime scenes, emergency situations, domestic violence, neighborhood security, etc. Especially recommended for students who will be working in law enforcement.

SPAN 310  Survey of Spanish Peninsular Literature  Three Credit Hours
Prerequisite: SPAN 302
A broad survey of literature in Spain from the early medieval period through major movements and representative authors to contemporary Spanish letters.

SPAN 320  Survey of Spanish American Literature  Three Credit Hours
Prerequisite: SPAN 302
A broad survey of major works of Spanish America from the pre-Columbian period through major movements and representative authors to contemporary literature.

SPAN 420  Medieval Spanish Literature  Three Credit Hours
Prerequisite: SPAN 302
A survey of the most prominent literary works in Spain from the early medieval period to the Renaissance.

SPAN 421  The Golden Age of Spanish Literature  Three Credit Hours
Prerequisite: SPAN 302
A study of the theatre, poetry and narrative of Spain’s Golden Age.

SPAN 423  Eighteenth and Nineteenth Century Literature of Spain  Three Credit Hours
Prerequisite: SPAN 302
A survey of major literary trends from Neoclassicism to the Generation of ‘98. Corresponding Spanish history will be presented as part of textual interpretation.

SPAN 424  Contemporary Spanish Narrative  Three Credit Hours
Prerequisite: SPAN 302
Literary trends in Spain since 1900.
SPAN 425  *Contemporary Spanish American Fiction*  Three Credit Hours
Prerequisite: SPAN 302
In-depth study of the major works of Spanish American fiction by the most important twentieth-century writers. Consideration will be given to Borges, Cortázar, Rulfo, Fuentes, and García Márquez.

SPAN 426  *Contemporary Spanish American Poetry*  Three Credit Hours
Prerequisite: SPAN 302
A study of selected Spanish American poets from Modernism to the contemporary period. The course will consider authors such as Dario, Mistral, Vallejo, Neruda, and Octavio Paz.

SPAN 427  *19th Century Spanish American Literature*  Three Credit Hours
Prerequisite: SPAN 302
An in-depth reading of the major Spanish American authors from the period of independence to Modernismo.

SPAN 428  *Contemporary Spanish Poetry*  Three Credit Hours
Prerequisite: SPAN 302
Trends in Spanish poetry since 1900.

SPAN 450  *Undergraduate Seminar: Studies in Special Topics*  Three Credit Hours
Prerequisite: SPAN 302
A comprehensive study and interpretation of a major author, work, period, movement—or combination thereof—from Spain or Spanish America. This course may be repeated provided that the subtitle is not duplicated.

SPAN 460  *Internship in Hispanic Language and Culture*  Three Credit Hours
Prerequisite: SPAN 302 and permission of department head and internship director
Internships with local entities (e.g., businesses, government agencies, non-profit organizations, etc.) may be periodically offered to combine academic training with professional experience.
Directed Individual Study

Directed Individual Study courses enable students with special interests, suitable preparation, and high academic standing to receive instruction and guidance in selected subjects which are not otherwise treated in the department’s regularly scheduled courses of instruction. Directed Individual Study courses may not be repeated and are open only to juniors and seniors with the assent of the instructor and the permission of the department head.

CHIN 341 and Chinese Language and Literature (junior year)
CHIN 342 Three Credit Hours Each Semester

CHIN 441 and Chinese Language and Literature (senior year)
CHIN 442

FREN 341 and French Language and Literature (junior year)
FREN 342 Three Credit Hours Each Semester

FREN 441 and French Language and Literature (senior year)
FREN 442

GERM 341 and German Language and Literature (junior year)
GERM 342 Three Credit Hours Each Semester

GERM 441 and German Language and Literature (senior year)
GERM 442

SPAN 341 and Spanish Language and Literature (junior year)
SPAN 342 Three Credit Hours Each Semester

SPAN 441 and Spanish Language and Literature (senior year)
SPAN 442
## MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
### French Track
#### First Semester
<table>
<thead>
<tr>
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<th>Code</th>
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<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
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<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
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<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
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<td><strong>Freshman Math</strong></td>
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<td>Elementary French Communication I</td>
<td>FREN 101</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>1st Year Basic ROTC</td>
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<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/ 211</td>
<td>1 (1,0)</td>
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<td>(211 may be taken either semester)</td>
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<td>Intermediate French Communication</td>
<td>FREN 201</td>
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<td>Strand History</td>
<td>HISS 30x</td>
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<td>Strand Natural Science</td>
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<td>General Elective</td>
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<td>General Elective</td>
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<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<tr>
<td>Advanced French Conversation</td>
<td>FREN 301</td>
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<tr>
<td>Advanced Modern Language</td>
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<td>General Elective</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED</td>
<td>0 (0,1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Senior Year
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>FREN</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>French 307 or 490</td>
<td>FREN</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
### MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR

**French Track**

**Second Semester**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Elementary French Communication II</td>
<td>FREN 102</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td><strong>Freshman Science</strong></td>
<td></td>
<td>4</td>
<td>(3,2)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102 1</td>
<td>(1,0)</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>French Reading, Conversation and Composition</td>
<td>FREN 202</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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</tr>
<tr>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Advanced French Composition</td>
<td>FREN 302</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>FREN 3</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
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</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature Experience Capstone or General Education Capstone</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Advanced Modern Language</td>
<td>FREN 3</td>
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<td>General Elective</td>
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<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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**REQUIRED FOR GRADUATION:** 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR  
Teaching Specialization in French Track  
First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101 1 (2,0)*</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101 3 (3,0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101 3 (3,0)</td>
</tr>
<tr>
<td>**Freshman Math</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Education in Modern Society</td>
<td>EDUC 101 3 (3,0)</td>
</tr>
<tr>
<td>Elementary French Communication I</td>
<td>FREN 101 3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td>101 1 (1,0)</td>
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</tbody>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/ 1 (1,0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211 0 (0,1)</td>
</tr>
<tr>
<td>Adolescent Development</td>
<td>EDUC 206 3 (3,0)</td>
</tr>
<tr>
<td>Intermediate French Communication</td>
<td>FREN 201 3 (3,0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x 3 (3,0)</td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x 3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
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<tr>
<td>2nd Year Basic ROTC</td>
<td>201 2 (2,0)</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311 0 (1,0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371 3 (3,0)</td>
</tr>
<tr>
<td>Advanced French Conversation</td>
<td>FREN 301 3 (3,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>FREN 3 (3,0)</td>
</tr>
<tr>
<td>Learners with Exceptionalities</td>
<td>EDUC 312 3 (3,0)</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x 3 (3,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0 (0,1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
</tr>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411 0 (1,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>FREN 3 (3,0)</td>
</tr>
<tr>
<td>Teaching Reading in Middle &amp; High School</td>
<td>EDUC 306 3 (3,0)</td>
</tr>
<tr>
<td>Special Methods in Teaching</td>
<td>EDUC 402 3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0 (0,1)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
## MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
### Teaching Specialization in French Track
#### Second Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED</td>
<td>260 3</td>
</tr>
<tr>
<td><strong>Freshman Science</strong></td>
<td></td>
<td>4 (3.2)</td>
</tr>
<tr>
<td>Elementary French Communication II</td>
<td>FREN</td>
<td>102 3</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>EDUC</td>
<td>202 3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102 1</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strand English</td>
<td>ENGS</td>
<td>30x 3</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS</td>
<td>30x 3</td>
</tr>
<tr>
<td>Foundations in Reading</td>
<td>EDUC</td>
<td>301 3</td>
</tr>
<tr>
<td>Child Development</td>
<td>EDUC</td>
<td>307 3</td>
</tr>
<tr>
<td>French Reading, Conversation and Composition</td>
<td>FREN</td>
<td>202 3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced French Composition</td>
<td>FREN</td>
<td>302 3</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>FREN</td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>Methods &amp; Materials-Middle &amp; High School</td>
<td>EDUC</td>
<td>401 3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3 (3.0)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship in Teaching</td>
<td>EDUC</td>
<td>499 12</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
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</tbody>
</table>

**REQUIRED FOR GRADUATION:** 129 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR

## German Track

### First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td><strong>Freshman Math</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elementary German I</td>
<td>GERM 101</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td></td>
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### Sophomore Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201</td>
<td>1</td>
</tr>
<tr>
<td>Intermediate German I</td>
<td>GERM 201</td>
<td>3</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NATS 30x</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>General Elective</td>
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<td>3</td>
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<td>2nd Year Basic ROTC</td>
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### Junior Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
</tr>
<tr>
<td>Advanced German Conversation</td>
<td>GERM 301</td>
<td>3</td>
</tr>
<tr>
<td>GERM 307/308</td>
<td>GERM 301</td>
<td>3</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
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<td></td>
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### Senior Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>GERM 3</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>GERM 3</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td>General Elective</td>
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</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
### MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
**German Track**

#### Second Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
<th>O.C.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary German II</td>
<td>GERM 102</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td><strong>Freshman Science</strong></td>
<td></td>
<td>4</td>
<td>(3,2)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
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<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102</td>
<td>1</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
<th>O.C.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate German II</td>
<td>GERM 202</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
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<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>2nd Year Basic ROTC</td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
<th>O.C.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced German Composition</td>
<td>GERM 302</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>GERM 3</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
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<td>(3,0)</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
<td>(0,1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
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<td></td>
<td></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
<th>O.C.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature Experience Capstone or</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>General Education Capstone</td>
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</tr>
<tr>
<td>Advanced Modern Language</td>
<td>GERM 3</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
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<td>General Elective</td>
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<td>3</td>
<td>(3,0)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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**REQUIRED FOR GRADUATION:** 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR  
Teaching Specialization in German Track  
First Semester

FRESHMAN YEAR
First Year Experience ........................................ LDRS 101 1 (2,0)*
Freshman Seminar ........................................... FSEM 101 3 (3,0)
Freshman Linked Writing Intensive .................. FSWI 101 3 (3,0)
**Freshman Math ............................................. 3 (3,0)
Elementary German I ................................. GERM 101 3 (3,0)
Education in Modern Society ...................... EDUC 101 3 (3,0)
General Elective .............................................. 3 (3,0)
1st Year Basic ROTC ....................................... 101 1 (1,0)

SOPHOMORE YEAR
Sophomore Seminar in Principled Leadership. LDRS 201/ 1 (1,0)
(211 may be taken either semester) .......... LDRS 211 0 (0,1)
Adolescent Development ............................... EDUC 206 3 (3,0)
Intermediate German I ................................. GERM 201 3 (3,0)
Strand History .............................................. HISS 30x 3 (3,0)
Strand Natural Science ................................. NTSS 30x 3 (3,0)
General Elective .............................................. 3 (3,0)
2nd Year Basic ROTC ...................................... 201 2 (2,0)

JUNIOR YEAR
Junior Ethics Enrichment Experience .......... LDRS 311 0 (1,0)
Leadership in Organizations ..................... LDRS 371 3 (3,0)
Advanced German Conversation ................ GERM 301 3 (3,0)
Business German Practical Applications .... GERM 307 3 (3,0)
Learners with Exceptionalities ................ EDUC 312 3 (3,0)
Strand Elective ............................................. ELES 30x 3 (3,0)
Required Physical Education ................... RPED 0 (0,1)
1st Year Advanced ROTC ...............................  

SENIOR YEAR
Senior Leadership Integration Seminar ....... LDRS 411 0 (1,0)
Advanced Modern Language ..................... GERM 3 3 (3,0)
Advanced Modern Language ..................... GERM 3 3 (3,0)
Teaching Reading in Middle & High School. EDUC 306 3 (3,0)
Special Methods in Teaching ................ EDUC 402 3 (3,0)
General Elective .............................................. 3 (3,0)
Required Physical Education ................... RPED 0 (0,1)
2nd Year Advanced ROTC ...............................  

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
## MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
### Teaching Specialization in German Track
#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FRESHMAN YEAR</td>
<td></td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260 3 (3,0)</td>
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<tr>
<td><strong>Freshman Science</strong></td>
<td>4 (3,2)</td>
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<tr>
<td>Elementary German II</td>
<td>GERM 102 3 (3,0)</td>
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<tr>
<td>Educational Psychology</td>
<td>EDUC 202 3 (3,0)</td>
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<tr>
<td>General Elective</td>
<td>3 (3,0)</td>
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<td>102 1 (1,0)</td>
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<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x 3 (3,0)</td>
</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x 3 (3,0)</td>
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<tr>
<td>Foundations in Reading</td>
<td>EDUC 301 3 (3,0)</td>
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<td>Child Development</td>
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<tbody>
<tr>
<td>JUNIOR YEAR</td>
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<tr>
<td>Advanced German Composition</td>
<td>GERM 302 3 (3,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
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<tr>
<td>Advanced Modern Language</td>
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<tr>
<td>Methods &amp; Materials-Middle &amp; High School</td>
<td>EDUC 401 3 (3,0)</td>
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<thead>
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<th>Course</th>
<th>Credits</th>
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<td>SENIOR YEAR</td>
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<tr>
<td>Internship in Teaching</td>
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<td>2nd Year Advanced ROTC</td>
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</table>

REQUIRED FOR GRADUATION: 129 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR

## Spanish Track

### FRESHMAN YEAR

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<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
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<td>LDRS 101 1</td>
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</tr>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td><strong>Freshman Math</strong></td>
<td></td>
<td>3 (3,0)</td>
<td></td>
</tr>
<tr>
<td>Elementary Spanish Communication I</td>
<td>SPAN 101 3</td>
<td>(3,0)*</td>
<td></td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
<td></td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
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<td>1 (1,0)</td>
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### SOPHOMORE YEAR

<table>
<thead>
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<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/ 1</td>
<td>(1,0)</td>
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</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211 0</td>
<td>(0,1)</td>
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</tr>
<tr>
<td>Intermediate Spanish Communication</td>
<td>SPAN 201 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NATS 30x 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
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<td></td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
<td></td>
</tr>
<tr>
<td>2nd Year Basic ROTC</td>
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<td>2 (2,0)</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311 0</td>
<td>(1,0)</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Advanced Spanish Conversation</td>
<td>SPAN 301 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>SPAN 3 3</td>
<td>(3,0)</td>
<td></td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x 3</td>
<td>(3,0)</td>
<td></td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
<td></td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>(0,1)</td>
<td></td>
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<tr>
<td>1st Year Advanced ROTC</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
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<tr>
<td>Advanced Modern Language</td>
<td>SPAN 3 3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
<td></td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR  
Spanish Track  
Second Semester  

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<tbody>
<tr>
<td>Elementary Spanish Communication II.......</td>
<td>SPAN 102</td>
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<td>(3,0)</td>
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<tr>
<td>**Freshman Science ..................................</td>
<td>4</td>
<td>(3,2)</td>
<td></td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness...</td>
<td>RPED 260</td>
<td>3</td>
<td>(3,0)</td>
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<td>General Elective.....................................</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
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<td>(3,0)</td>
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<tr>
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<td>(1,0)</td>
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<tbody>
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<td>Spanish Conversation, Reading and Composition..................</td>
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<td>Strand English.......................................</td>
<td>ENGS 30x</td>
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<td>(3,0)</td>
</tr>
<tr>
<td>Strand Social Science................................</td>
<td>SCSS 30x</td>
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<td>(3,0)</td>
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<td>(3,0)</td>
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<tr>
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<td>3</td>
<td>(3,0)</td>
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<td>2nd Year Basic ROTC..................................</td>
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<tbody>
<tr>
<td>Advanced Spanish Composition..........................</td>
<td>SPAN 302</td>
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<tr>
<td>SPAN 307/308/309 ....................................</td>
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<td>3</td>
<td>(3,0)</td>
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<tr>
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<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Required Physical Education..........................</td>
<td>RPED</td>
<td>0</td>
<td>(0,1)</td>
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<td>Signature Experience Capstone or General Education Capstone.............</td>
<td>3</td>
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<tr>
<td>Advanced Modern Language..................................</td>
<td>SPAN</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective.....................................</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>General Elective.....................................</td>
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<td>General Elective.....................................</td>
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<td>(3,0)</td>
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<td>2nd Year Advanced ROTC..................................</td>
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REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
Teaching Specialization in Spanish Track
First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
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<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
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<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3 (3,0)</td>
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<tr>
<td>Elementary Spanish Communication I</td>
<td>SPAN 101</td>
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<td>Education in Modern Society</td>
<td>EDUC 101</td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
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**SOPHOMORE YEAR**

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<thead>
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<th>Course Code</th>
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<tbody>
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<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
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<tr>
<td>Adolescent Development</td>
<td>EDUC 206</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Intermediate Spanish Communication</td>
<td>SPAN 201</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
<td>3 (3,0)</td>
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<td>General Elective</td>
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**JUNIOR YEAR**

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<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1,0)</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Advanced Spanish Conversation</td>
<td>SPAN 301</td>
<td>3 (3,0)</td>
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<tr>
<td>Advanced Modern Language</td>
<td>SPAN 3</td>
<td>3 (3,0)</td>
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<tr>
<td>Learners with Exceptionalities</td>
<td>EDUC 312</td>
<td>3 (3,0)</td>
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<td>Strand Elective</td>
<td>ELES 30x</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
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<table>
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<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1st Year Advanced ROTC</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
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<tr>
<td>Advanced Modern Language</td>
<td>SPAN 3</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Advanced Modern Language</td>
<td>SPAN 3</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Teaching Reading in Middle &amp; High School</td>
<td>EDUC 306</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Special Methods in Teaching</td>
<td>EDUC 402</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0 (0,1)</td>
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<tr>
<th>Course Description</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>2nd Year Advanced ROTC</td>
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</table>

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**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
MODERN LANGUAGES, LITERATURES AND CULTURES MAJOR
Teaching Specialization in Spanish Track
Second Semester

FRESHMAN YEAR
Physical Fitness, Resiliency, and Wellness... RPED 260 3 (3,0)
**Freshman Science ........................................ 4 (3,2)
Elementary Spanish Communication II ....... SPAN 102 3 (3,0)
Educational Psychology ....................... EDUC 202 3 (3,0)
General Elective........................................... 3 (3,0)
1st Year Basic ROTC ................................. 102 1 (1,0)

SOPHOMORE YEAR
Spanish Conversation, Reading and Composition.................. SPAN 202 3 (3,0)
Strand English........................................ ENGS 30x 3 (3,0)
Strand Social Science............................. SCSS 30x 3 (3,0)
Foundations in Reading............................ EDUC 301 3 (3,0)
Child Development.................................. EDUC 307 3 (3,0)
General Elective........................................... 3 (3,0)
2nd Year Basic ROTC.................................

JUNIOR YEAR
Advanced Spanish Composition................... SPAN 302 3 (3,0)
Advanced Modern Language .................... SPAN 3 (3,0)
Advanced Modern Language .................... SPAN 3 (3,0)
Methods & Materials-Middle & High School EDUC 401 3 (3,0)
General Elective........................................... 3 (3,0)
General Elective........................................... 3 (3,0)
1st Year Advanced ROTC............................

SENIOR YEAR
Internship in Teaching................................. EDUC 499 12
2nd Year Advanced ROTC............................

REQUIRED FOR GRADUATION: 129 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
The Department offers an academic major in political science. This major affords students an opportunity to obtain a broad liberal arts education that enriches their lives and acquaints them with the rights and responsibilities of citizenship. The course of study for students majoring in political science begins with a set of core courses to introduce the student to the discipline. Students then have the opportunity to select from a list of specialized electives in their area of concentration and to increase their understanding of their field by taking courses in the related disciplines of anthropology, criminal justice, economics, history, psychology, and sociology as well as General Electives from other departments. As the central element of a general education, political science provides preparation for graduate education and for useful and satisfying careers.

**Political Science Major:** The course of study for students majoring in political science prescribes a set of core courses to introduce the student to the discipline. In addition, each major must select one of the following departmental subfields for specialization in the junior and senior years.

A. American Government and Politics.
B. International Politics and Military Affairs.
C. Pre-Law and Legal Studies.

The discipline of political science seeks to describe and to explain political phenomena, including both foreign and domestic political institutions, the political process, political behavior, and contemporary political and security issues. Political science also studies the relationships of individuals with their governments, including the rights and responsibilities of citizens. The major has especially strong appeal for those who anticipate careers in law and government, particularly in the Foreign Service, Department of Homeland Security and Department of State, intelligence agencies, the military services of the US Army, US Navy, US Air Force, and US Coast Guard, as well as a broad range of ancillary civilian and government organizations.

**Other Programs and Courses:** The Department offers five minors: Non-Western Studies, American Politics, International and Military Affairs, Public Policy and Law and Legal Studies. The Department also participates in the college’s interdisciplinary minors in African-American Studies, International Criminal Justice, International Relations, Southern Studies, Leadership Studies,
and East-Asian Studies. For a full description of these minor programs, please refer to the appropriate entries in this catalog: Department of Criminal Justice - International Criminal Justice; Department of English - Leadership Studies; Department of History - African-American Studies, International Relations, and Southern Studies; Department of Modern Languages, Literatures and Cultures - East Asian Studies.

**Major Requirements: B.A. in Political Science**

The political science major consists of seventeen courses (51 credit hours), mostly within the department but including as well a mix of humanities and social science courses (with the exact mix depending on the subfield the student selects). In addition, it provides for eight elective courses which students may take as they choose.

Students pursuing a degree in Political Science will take up to nine hours of language instruction that may or may not build on high school study:

- Students who wish to study the same language at The Citadel that they studied in high school will take a placement test in that language. There are three possible results of that test. If the student places into the elementary level of the language, he/she will be required to take 102, 201, and 202. If the student places into the intermediate level of the language, he/she will be required to take 201 & 202. The third class in the requirement may be an upper-level language class, or it may be a general elective. Students who place beyond the intermediate level will have satisfied the language requirement. They will simply take nine hours of general elective classes; these classes may be upper-level language classes.

- Students who wish to study a different language than what they studied in high school will be required to take 101, 102, and 201.

The complete course of study is presented in the Courses of Study section of this catalog.

First, each student is required to complete a specified core of six courses:

- PSCI 102 American National Government
- PSCI 231 International Politics
- PSCI 232 Comparative Politics
- PSCI 304 American Political Thought or PSCI 391, Foundations of Political Theory; PSCI 392, Modern Political Theory or PSCI 492, Topics in Political Philosophy and Theory
- PSCI * Capstone Seminar in Political Science

*course number to be determined/contact department

Second, no later than the beginning of the fall semester of the junior year, each political science major must select one of the subfields for course concentration during the junior and senior years. The three subfields are **Subfield A: American Government and Politics**, **Subfield B: International Politics and Military Affairs**, and **Subfield C: Pre-Law and Legal Studies**. Majors must complete selected courses within one subfield of their choice. As detailed below, three of these courses are specifically required; the remaining courses are a combination of subfield electives selected from a list for each subfield,
American Politics electives (see the electives list for Subfield A), political science electives, a non-PSCI humanities/social science upper level elective, history electives, and macroeconomics (for Subfields A and C only). Inasmuch as subfield requirements vary, students are encouraged to pay careful attention to the distribution of courses in the subfield selected.

All undergraduate courses taken at The Citadel with a subject prefix of PSCI will count towards the major GPA.

All courses within a subfield are open both to majors in other departments and to political science majors who are concentrating in one of the other two subfields. Subfield requirements and electives are presented below.

**Subfield A: American Government and Politics**

<table>
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<tr>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
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<tr>
<td>American Parties &amp; Politics, PSCI 301</td>
<td>Urban Politics, PSCI 302 or Legislative Process, PSCI 306</td>
</tr>
<tr>
<td>History Elective</td>
<td>History Elective</td>
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<tr>
<td>Subfield Elective</td>
<td>Theory: PSCI 304, 391, 392, or 492</td>
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<tr>
<td>Biology, Chemistry, or Physics</td>
<td>Biology, Chemistry, or Physics</td>
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<tr>
<td>ECON 202</td>
<td>Elective</td>
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<td>ROTC</td>
<td>Elective</td>
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<td>LDRS 311</td>
<td>ROTC</td>
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<th>SENIOR YEAR</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>Pol. Issues &amp; Public Policy, PSCI 401</td>
<td>Subfield Elective</td>
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<tr>
<td>Subfield Elective</td>
<td>Non-PSCI Humanities/Social Science Elective</td>
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<tr>
<td>Constitutional Law, PSCI 462</td>
<td>Political Science Elective</td>
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<tr>
<td>Elective</td>
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<td>ROTC</td>
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<tr>
<td>LDRS 411</td>
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**Required:**
PSCI 301 American Parties and Politics
PSCI 302 Urban Politics or PSCI 306: Legislative Process
PSCI 401 Political Issues and Public Policy

Subfield electives (those students selecting this subfield must complete at least three electives chosen from the following):
PSCI 303 State and Local Government
PSCI 304 American Political Thought
PSCI 305 American Presidency
PSCI 306 Legislative Process
PSCI 307 Southern Politics
PSCI 308 Public Opinion
PSCI 310 Domestic Terrorism
PSCI 311 The Civil Rights Movement and American Politics
PSCI 371 Leadership in Politics
PSCI 393 Research Methods in Political Science
PSCI 396 Politics and the Media
PSCI 402 Politics of Bureaucracy
PSCI 403 Topics in American Government and Politics
PSCI 431 American Foreign Relations
PSCI 461 Issues in Contemporary Constitutional Law
PSCI 498 Independent Study
PSCI 499 Internship
FREN 301 or GERM 301 or SPAN 301 or CHIN 301

Subfield B: International Politics and Military Affairs

JUNIOR YEAR
First Semester
Subfield Elective
History Elective
American Politics Elective
Biology, Chemistry, or Physics
Internat. Political Economy, PSCI 351
ROTC
LDRS 311

Second Semester
Nat. Security Pol., PSCI 332
History Elective
Theory: PSCI 304, 391, 392, or 492
Biology, Chemistry, or Physics
Elective
ROTC

SENIOR YEAR
First Semester
Am. Foreign Relations, PSCI 431
American Politics Elective
Constitutional Law, PSCI 462
Elective
Elective
ROTC
LDRS 411

Second Semester
Int. Politics Elective
Int. Politics Area Elective
Non-PSCI Humanities/Social Science Elective
Elective
Elective
ROTC

Required:
PSCI 332 National Security Policy
PSCI 351 Internat. Political Economy
PSCI 431 American Foreign Policy

Subfield electives (those selecting this subfield must complete at least two electives chosen from any of the American government and politics courses listed above plus three subfield electives chosen from the following, one of which must be an area course):
PSCI 310 Domestic Terrorism
PSCI 331 International Law
PSCI 333 International Organization
PSCI 335 Comparative Foreign and Defense Policies
PSCI 336 Russia and the Commonwealth of Independent States  
PSCI 337 East Asian Affairs  
PSCI 338 Southeast Asian Affairs  
PSCI 339 Middle Eastern Affairs  
PSCI 334 Latin American Affairs  
PSCI 341 African Affairs  
PSCI 342 International Terrorism  
PSCI 343 Introduction to Non-Western Studies  
PSCI 344 European Affairs  
PSCI 345 South Asian Affairs  
PSCI 346 Multinational Peacekeeping  
PSCI 348 Theories of Peace and War  
PSCI 352 Global Democracy  
PSCI 353 International Economic and Development Institutions  
PSCI 371 Leadership in Politics  
PSCI 393 Research Methods in Political Science  
PSCI 402 Politics of Bureaucracy  
PSCI 433 Topics in International Politics  
PSCI 498 Independent Study  
PSCI 499 Internship  
CRMJ 384 International Crime  
FREN 301 or GERM 301 or SPAN 301 or CHIN 301

**Subfield C: Pre-Law and Legal Studies**

**Junior Year**

**First Semester**
- Intro to Criminal Justice, CRMJ 201
- History Elective
- American Politics Elective
- Biology, Chemistry, or Physics
- ECON 202
- ROTC
- LDRS 311

**Second Semester**
- Law & Legal Process, PSCI 361
- History Elective
- Theory: PSCI 304, 391, 392, or 492
- Biology, Chemistry, or Physics
- Elective
- ROTC

**Senior Year**

**First Semester**
- Constitutional Law, PSCI 462
- Pre-Law & Legal Studies Elective
- American Politics Elective

**Second Semester**
- Constitutional Law, PSCI 461
- Pre-Law & Legal Studies Elective
- Non-PSCI Humanities/Social Science Elective
- Elective
- Elective
- ROTC

**Required:**
- CRMJ 201 Introduction to Criminal Justice
- PSCI 361 Law and Legal Process
- PSCI 461 Issues in Contemporary Constitutional Law
Subfield electives (those selecting this subfield must complete at least two electives chosen from any of the American government and politics courses listed above plus two subfield electives chosen from the following):

PSCI 304 American Political Thought
PSCI 311 The Civil Rights Movement and American Politics
PSCI 331 International Law
PSCI 393 Research Methods in Political Science
PSCI 402 Politics of Bureaucracy
PSCI 463 Topics in Law and Legal Studies
PSCI 498 Senior Research Project/Independent Study
PSCI 499 Internship
SOCI 201 Introduction to Sociology
CRMJ 202 Criminology
CRMJ 371 Criminal Law
CRMJ 373 Criminal Evidence
CRMJ 465 Special Topics in Criminal Justice
ENGL 411 Writing in the Professions
ACCT 201 Principles of Financial Accounting
FREN 301 or GERM 301 or SPAN 301 or CHIN 301

Minor in American Politics: Democracy and the Political Process

Objectives:
This minor is designed to provide students with an understanding of the institutions and processes involved in the formulation of demands made on the American political system and the responsiveness of the authorities in the system to these demands.

Competencies, Knowledge, or Skills to be Achieved:
Through the study of topics such as the formulation and expression of public opinion, the effectiveness with which political parties create and maintain broad-based governing coalitions, the structures and operations of basic governing institutions, and the nature of the policy process, students should develop a solid grasp of the linkages between public opinion, groups, parties, institutions, and public policy. Since democratic theory assumes the existence of this linkage, students completing the minor should have a solid understanding of the practice of American democracy. Since a number of courses in the minor require the quantitative analysis of data, students will also deepen their knowledge of the methods of the social sciences. The requirement that papers and reports be submitted should enhance mastery of the English language.

This minor is not approved for students majoring in political science.

Structure of the Minor:
1. Required Courses
   - PSCI 301 American Parties and Politics
   - PSCI 308 Public Opinion
   - PSCI 305 American Presidency or PSCI 306 Legislative Process
2. **Electives (choose two)**
   - PSCI 304 American Political Thought
   - PSCI 305 American Presidency or PSCI 306 Legislative Process
   - PSCI 307 Southern Politics
   - PSCI 310 Domestic Terrorism
   - PSCI 311 The Civil Rights Movement and American Politics
   - PSCI 371 Leadership in Politics
   - PSCI 393 Research Methods in Political Science
   - PSCI 396 Politics and the Media
   - PSCI 401 Political Issues and Public Policy
   - PSCI 403 Topics in American Government and Politics
   - PSCI 431 American Foreign Relations
   - PSCI 499 Internship

*Total Credit Hours Required*—15, at least 9 of which must be completed at The Citadel

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**Minor in International and Military Affairs**

**Objectives:**
This minor is designed to introduce students to the field of international and military affairs and provide them with a greater understanding of the international environment in which individuals, states, and organizations operate. The minor will include an introduction to international and comparative politics as well as at least one regional area of the international system. The program’s flexibility allows students to expand their introduction to this topic through the completion of two electives in regional studies, macro-based political views of the international system, international economics, national security, foreign policy, or some combination of these categories.

**Competence, Knowledge, or Skills to be Achieved:**
The minor will require students to acquire and apply critical analytical skills in order to achieve an understanding of the international system and its complex array of components. The required courses in international and comparative politics require students to consider the functions and components of the international system as well as the ideological and political differences between individuals, states, and organizations which comprise this system. A regional course requirement presents students with a more detailed analysis of how other states govern themselves and operate within the international system. The electives allow students to apply their newly developed tools for international and military affairs analysis to other geographical regions, macro-based political issues such as international law or organization, or international economics. Critical thinking and systematic analysis in the required courses and electives will present students with these tools for further dissection of the international system, allow a greater appreciation for the complex world we live in, and prepare them for military, political, legal, or business careers in an ever-increasingly interdependent world.
This minor is not approved for students majoring in political science.

Structure of the Minor:
1. Required Courses
   - PSCI 231: International Politics
   - PSCI 232: Comparative Politics

2. Electives (choose three, 1 of which must be a regional course)
   - MGMT 431: International Business
   - PSCI 331: Introduction to International Law
   - PSCI 332: National Security Policy
   - PSCI 333: International Organization
   - PSCI 334: Problems in International Law and Organization
   - PSCI 335: Comparative Foreign and Defense Policies
   - *PSCI 336: Russia and the Commonwealth of Independent States
   - *PSCI 337: East Asian Affairs
   - *PSCI 338: Southeast Asian Affairs
   - *PSCI 339: Middle East Affairs
   - *PSCI 340: Latin American Affairs
   - *PSCI 341: African Affairs
   - PSCI 342: International Terrorism
   - PSCI 343: Introduction to Non-Western Studies
   - *PSCI 344: European Affairs
   - *PSCI 345: South Asian Affairs
   - PSCI 346: Multinational Peacekeeping
   - PSCI 348: Theories of Peace and War
   - PSCI 351: International Political Economy
   - PSCI 352: Global Democracy
   - PSCI 353: International Economic and Development Institutions
   - PSCI 431: American Foreign Relations
   - PSCI 433: Topics in International Politics
   - PSCI 498: Independent Study
   - PSCI 499: Internship
   - CRMJ 384: International Crime

*Regional Course

Total Hours Required: 15, of which 9 must be completed at The Citadel

Minor in Law and Legal Studies

Objectives:
This minor is designed to introduce students in a systematic way to the American systems of civil and criminal justice; to provide an introduction to law and the legal system for students who are considering careers in law or criminal justice; and to provide an opportunity for students to undertake advanced law-related courses, grounded in a basic understanding of law and the legal system.
Competencies, Knowledge, or Skills to be Achieved:

The minor introduces students to legal reasoning, to case analysis, and to legal terms and citations as well as theoretical matters. Aside from an understanding of the nature of the legal process, the minor seeks to develop each student’s capabilities for critical thinking and systematic analysis.

This minor is not approved for students majoring in political science or criminal justice.

Structure of the Minor:
1. Required Courses
   - CRMJ 201 Introduction to Criminal Justice
   - PSCI 361 Law and Legal Process
   - PSCI 462 Constitutional Law: Civil Rights and Liberties

2. Electives (choose two)
   - PSCI 331 International Law
   - PSCI 392 Political Theory
   - PSCI 402 Politics of Bureaucracy
   - PSCI 461 Issues in Contemporary Constitutional Law
   - PSCI 463 Topics in Law and Legal Studies
   - PSCI 499 Internship
   - CRMJ 202 Criminology
   - CRMJ 371 Criminal Law
   - CRMJ 373 Criminal Evidence
   - SOCI 201 Introduction to Sociology
   - ENGL 411 Writing in the Professions

Total Credit Hours Required: 15, of which 9 must be completed at The Citadel

Minor in Public Policy

Objectives:
This minor is designed to introduce students to the study of public policy. The minor has four principal objectives. First, the student is taught the theoretical underpinnings of public policy understood as man (and society) as a rational actor open to behavioral changes through the manipulation of incentives. The second component of the minor focuses on the policymaking process in the United States. Third, the student is encouraged to learn practical methods of policy evaluation through methodological coursework. Last, the student selects one of three subfields (American Domestic Policy, National and Foreign Security Policy, and Environmental and Health Policy) in which to concentrate.

Competencies, Knowledge, or Skills to be Achieved:
Students completing the minor will gain insight into the factors that motivate change in individuals and society. He or she will understand the political processes that shape the formation of public policy from the academic or think tank setting to eventual implementation by the government. The student will be exposed to certain methodological strategies to gather information for better policy execution and policy evaluation. Furthermore, the student will have competence in one particular area of policy studies.
Structure of the Minor: The minor consists of five courses (15 credit hours total). Two of these courses are required. The remaining three courses must be selected from one of the three subfield categories. Students do not have to complete the required courses first, though they are advised to do so.

Please note the Citadel policy requires that at least 12 credit hours in a minor must be beyond the core curriculum and course specified for major or other minor requirements.

1. Required Courses: 6 hours (Must take two of the following courses)
   - PSCI 401 Public Policy
   - ECON 201 Principles of Microeconomics

2. Electives (choose three of the following three tracks: American Domestic Policy, Foreign and National Security Policy, and Environmental and Health Policy

**American Domestic Policy:**
- ECON 202 Principles of Macroeconomics
- MGMT 303 Management and Organizational Behavior
- CRMJ 330 Emergency Management
- CRMJ 333 Immigration and Security
- CRMJ 372 Critical Issues in Law Enforcement
- CRMJ 382 Drugs and Crime
- GEOG 301 Introduction to Geographic Information Systems
- HIST 319 American Labor History
- PSCI 302 Urban Politics
- PSCI 308 Public Opinion and Political Behavior
- PSCI 402 Politics of Bureaucracy and Public Administration
- PSCI 393 Research Methods in Political Science
- PSCI 499 Internship*

**Foreign and National Security Policy**
- MGMT 431 International Business
- CRMJ 384 International Crime
- GEOG 301 Introduction to Geographic Information Systems
- HIST 207 Perspectives on Contemporary Conflicts
- HIST 364 The Arab-Israeli Conflict
- HIST 388 US Foreign Relations since 1898
- INTL 311 US Intelligence Successes and Failures
- INTL 464 Intelligence Internship
- PSCI 332 National Security Policy
- PSCI 331 International Law
- PSCI 335 Comparative Foreign and Defense Policy
- PSCI 342 International Terrorism

**Foreign and National Security Policy**
- PSCI 353 International and Economic and Development Institutions
- PSCI 351 International Political Economy
- PSCI 499 Internship*
Environmental and Health Policy

BIOL 207 Bioterrorism**
BIOL 209 Environmental Science
BIOL 407 Conservation Ecology***
GEOG 301 Introduction to Geographic Information Systems
HLED 404 Public Health
NURS 303 Health Policy
Internship*

General Policy (9 hours). Take one course from each of the three possible areas of concentration outlined above.

For further information, please contact the Department of Political Science

* A relevant Internship or Special Topics course may, with the prior approval of the Public Policy Program Director, be applied toward fulfillment of the requirements for the minor.

** Prerequisite: BIOL 101: General Biology I

***Prerequisite: BIOL 102/112: General Biology II/General Biology II Laboratory or BIOL 209: Environmental Science or BIOL 140/141: Introduction to Biology II/Introduction to Biology II Laboratory

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The Minor in East Asian Studies

Objectives:
The minor in East Asian Studies provides well-qualified upperclassmen the opportunity to develop a secondary field of expertise in a discipline of vital national interest.

Administration: The minor in East Asian Studies is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

Structure of the Minor:
Fifteen credit hours, of which six hours are in language:

either CHIN 101/102, Intensive Introduction to Chinese I and II,
JAPN 101/102, Intensive Intro. to Japanese I and II, or
KORE 101/102, Intensive Introduction to Korean I and II;

at least three hours in history, chosen from:
HIST 357, History of Premodern China,
HIST 358, History of Modern China,
HIST 359, Silk Roads and Nomadic Empires,  
HIST 360, History of Japan;  
HIST 365, Special Topics in Non-Western History  
and at least three hours in political science, chosen from:  
PSCI 337, East Asian Affairs,  
PSCI 338, Southeast Asian Affairs,  
PSCI 433, Topics in International Politics: Northeast Asian Affairs;  
and a three-hour elective from either history or political science, chosen from the courses listed above.

Prerequisite: Because Chinese is the only Asian language offered through 202 at The Citadel, registrants for Japanese and Korean (Category IV languages by the Defense Language Institute’s scale of hours required for mastery), must have completed the core requirement in Chinese (Category IV language), French, German, or Spanish (Category II languages).

Competencies, Knowledge, or Skills to Be Achieved in the Language Courses:  
The intensive-introduction sequences develop basic practical communication through standard cognitive-code methodology. Daily study and practice of phonetics, orthography, vocabulary, grammar, syntax, idiom, and culture cultivate the four skills critical to foreign-language mastery: aural comprehension, oral expression, reading comprehension, and composition. By the end of the course, the diligent student will be able to converse intelligibly in general social situations, recognize and reproduce the phonetic alphabets and most-used characters of the pictographic writing systems, comprehend the gist of simple texts with the aid of a dictionary, and write brief summaries of those texts.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

This minor is jointly administered by the Department of Modern Languages, Literatures and Cultures or the Department of Political Science.

Minor in Non-Western Studies

Objectives:
The minor in non-Western studies is designed to allow students to develop a multidisciplinary, directed course of study through which they will attain a well-rounded understanding of a regional (Asia, Middle East, Africa, Latin America) or functional (e.g., development, revolution) area.

Competencies, Knowledge, or Skills to be Achieved:
In addition to the above, students will have an opportunity to develop keener insight and appreciation for diversity. This program will not only allow minority students to learn about their origins, but will (perhaps more importantly) engage all students to widen their horizons. In addition, this specialization will prove especially beneficial for the student pursuing a graduate degree in such areas as International Business, International Studies, Comparative Literature, History, etc. It will also distinguish students entering military or other government service.

No students are excluded from pursuing this minor. A student may not, however, use any course toward satisfying both the minor requirement and a specific or area requirement in his or her major.
Administration: The minor in Non-Western Studies is supervised by a Steering Committee that consists of one representative from each of the constituent departments within the minor. Each department will choose its representative on the Steering Committee. In consultation with the committee, the Dean of Humanities and Social Sciences will appoint one of its members to serve as overall Director of the Minor. The Director and the Steering Committee will meet at least once each semester (fall and spring) to plan activities related to, and set appropriate policies for, the minor. The Director will have primary responsibility for administering those activities and policies, will serve a term of three years, and may be renewed by the Dean for an additional term with the advice and consent of the Steering Committee. Directors will submit annual reports on the minor to the Dean of the School of Humanities and Social Sciences.

Structure of the Minor:

1. Required Courses
   Foreign language through the 202 level (equivalent to 12 hours); Introduction to Non-Western Studies (PSCI 343) (3 hours)

2. Electives
   Four of the following from at least two disciplines:
   - HIST 206
   - HIST 357
   - HIST 358
   - HIST 361
   - HIST 362
   - HIST 365
   - HIST 387
   - PSCI 335
   - PSCI 337
   - PSCI 338
   - PSCI 339
   - PSCI 340
   - PSCI 341
   - PSCI 342
   - PSCI 343
   - GEOG 311
   - ANTH 202
   - SPAN 303
   - SPAN 304
   - SPAN 320
   - FREN 303
   - FREN 304
   - GERM 303
   - GERM 304
   - CRMJ 383
   - CRMJ 384
   Other: relevant Independent Study in any discipline; approved Senior Research Project or Internship; any relevant course taught by departments as a special topic; any relevant literature and/or language course (Asian, African, Latin American, or Middle East).

3. Projected Course of Study:
   Students will be required to file a declaration of intent with the Director of the program by the end of the first semester of the junior year. This declaration will outline the projected course of study and will be approved by the Director. In addition to approving this projected course of study, the Director will assume responsibility for publicizing the program and for monitoring each student’s progress toward fulfilling the requirements of the minor; in this latter capacity, the Director will be responsible for verifying that the student has met the requirements of the minor and for notifying the Records Office to that effect.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel (plus 12 of language).
Political Science Course Descriptions

PSCI 102  American National Government  Three Credit Hours
Required of political science freshmen
A study of the American constitution background, the rights and liberties of persons, public opinion, voting behavior, political parties, interest groups, and the organization and roles of the presidency, the Congress, and the national judiciary in policy formation and implementation.

PSCI 231  International Politics  Three Credit Hours
Required of political science sophomores.
An analysis of the international system, of the nation-state, the role of power in international politics, and the goals and instruments of a nation’s foreign policy.

PSCI 232  Comparative Politics  Three Credit Hours
Required of political science sophomores.
An analysis of the various political systems in terms of institutions, structure, and function. Emphasis on the development of common criteria for the evaluation and comparison of these divergent systems.

PSCI 301  American Parties and Politics  Three Credit Hours
An analysis of the dynamics of American politics, with particular emphasis upon the factors entering into the formulation of public opinion, the role of interest groups, and the nature and operation of the party system.

PSCI 302  Urban Politics  Three Credit Hours
A study of mass participation in urban political affairs, political parties on local level, the municipal reform movement, and the alternative approaches to the study of local political systems. Emphasis placed on the problems of local government in metropolitan areas.

PSCI 303  State and Local Government  Three Credit Hours
A study of the role of the states in the American constitutional system, the institutional organization of state governments, and the relationships both between the states and the national government and among the various levels of state government.

PSCI 304  American Political Thought  Three Credit Hours
A study of the basic political ideas which have developed in response to American constitutional, social, and economic conditions.

PSCI 305  American Presidency  Three Credit Hours
A study of the modern presidency with attention to its origin and its historical and constitutional development. Emphasis placed on the examination of the various roles and functions of the president and on an analysis of presidents in action.
PSCI 306  Legislative Process  Three Credit Hours
A study of the organizations and procedures of a legislative body with attention to its role in policy formation and its relationships with other parts as a political and governmental system.

PSCI 307  Southern Politics  Three Credit Hours
A study of politics in the South in both regional and national contexts. Attention given to the politics of individual states and to an analysis of regional developments in such areas as race relations, political behavior, and party competition.

PSCI 308  Public Opinion and Political Behavior  Three Credit Hours
A systematic analysis of political attitudes and behavior in relation to techniques of opinion survey design and analysis, voting behavior, and mechanisms for influencing options.

PSCI 310  Domestic Terrorism  Three Credit Hours
A survey of the domestic terrorism landscape in the United States by examining groups involving local nationals that use or attempt to use extreme violence against purely domestic targets. The course explores how nationalistic, religio-political, ideological, and single-issue terrorist groups attempt to influence or coerce others into action they would not otherwise take. The course also examines the threat posed by “home-grown” Jihadist terrorism in the U.S. with varying degrees of ideological, political, and material support from non-domestic al-Qaida affiliates and, additionally, the public policy issues related to the capacity of national security agencies to deter political violence by local nationals and home-grown Jihadists.

PSCI 311  The Civil Rights Movement and American Politics  Three Credit Hours
Examination of the Civil Rights Movement from World War II to the present with special attention to the period from 1954 through 1965. The course will consider the impact of this critical period on American politics and political behavior during the decades since, down to the present. Key events, organizations, and personalities will be examined, and continuing issues such as affirmative action and racial typing will be discussed.

PSCI 331  International Law  Three Credit Hours
A survey of international law as developed through treaties, customs, usages, and decisions of national and international tribunals.

PSCI 332  National Security Policy  Three Credit Hours
An examination of the components of United States security policy. Consideration given to factors, both internal and external, affecting national security.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSCI 333</td>
<td><em>International Organization</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A survey of the development and functions of international organizations, including the League of Nations, the United Nations, and other international agencies seeking to promote harmony and cooperation among nations.</td>
<td></td>
</tr>
<tr>
<td>PSCI 335</td>
<td><em>Comparative Foreign and Defense Policies</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A comparison and analysis of the foreign and defense policies of Russia, China, Britain, France, and selected Third World states, including an introduction to the defense strategies of the state and the relationship between foreign and defense policy in today’s world.</td>
<td></td>
</tr>
<tr>
<td>PSCI 336</td>
<td><em>Russia and the Commonwealth of Independent States</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A selective survey of the structure and operations of the government of Russia and the Commonwealth of Independent States.</td>
<td></td>
</tr>
<tr>
<td>PSCI 337</td>
<td><em>East Asian Affairs</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A survey of China from 1911 to the present, with emphasis on the rise of communism in China, on the structure and operation of the Chinese People’s Republic, and on contemporary Chinese foreign policy. As appropriate, Japan, the Koreas, and Taiwan will also be addressed.</td>
<td></td>
</tr>
<tr>
<td>PSCI 338</td>
<td><em>Southeast Asian Affairs</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A study of the development of selected countries in the area with emphasis on the problems of regionalization, transition, ideological orientations, and the importance of the area to the national interests and foreign policy of the United States.</td>
<td></td>
</tr>
<tr>
<td>PSCI 339</td>
<td><em>Middle Eastern Affairs</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A survey of the Middle East with emphasis on the domestic and foreign policies of the region’s states and the role of the area in the foreign policy of the United States.</td>
<td></td>
</tr>
<tr>
<td>PSCI 340</td>
<td><em>Latin American Affairs</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A study of Latin America with emphasis on issues of political change, development, and regionalism and on the importance of the area to the foreign policy of the United States.</td>
<td></td>
</tr>
<tr>
<td>PSCI 341</td>
<td><em>African Affairs</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>An analysis of the politics and modernization of Sub-Saharan Africa with emphasis on the diverse political, social, and economic factors influencing political development.</td>
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</tr>
<tr>
<td>PSCI 342</td>
<td><em>International Terrorism</em></td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>A study of international and transnational political violence, with some attention to the phenomenon of “state terrorism” (international repression) and its potential impact on the conduct of American foreign policy. Issues addressed include conceptualizing and defining terrorism, the structure of violent politics, the lessons and patterns from the history of contemporary political violence, State support for terrorism, and counterterrorism as a public policy problem.</td>
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</tbody>
</table>

*Department of Political Science*
PSCI 343  *Introduction to Non-Western Studies*  Three Credit Hours

The core course for the non-Western studies minor, this course is a multidisciplinary introduction to the history and politics of the societies of Asia, Africa, and Latin America. Attention is addressed to their experiences with colonialism and confrontations with modernization as well as to their current international relations.

PSCI 344  *European Affairs*  Three Credit Hours

An examination of politics and economics in selected states in the unified entity known as “Europe.” Organizations such as the European Union and the North Atlantic Treaty Organization (and others) and their impact on the United States will also be addressed.

PSCI 345  *South Asian Affairs*  Three Credit Hours

A study of key countries in the region: India, Pakistan, Nepal, Afghanistan, and Sri Lanka, with an emphasis on issues of development and security concerns such as nuclear weapons development, territorial disputes, communal conflicts, and other forms of political violence. Attention is also paid to the great power aspirations of India and Pakistan and their relations with the United States.

PSCI 346  *Multinational Peacekeeping*  Three Credit Hours

An introduction to the issues relating to the mandating, deployment, and maintenance of multinational peacekeeping operations of the United Nations and selected regional/subregional organizations such as NATO, the OAU, ECOWAS, and Arab League. Includes an examination of the lessons learned from selected case study operations.

PSCI 348  *Theories of Peace and War*  Three Credit Hours

An introduction to political and economic theories that explain the outbreak of war as well as the restoration of peace in the international system. Includes an application of theory in the context of the examination of selected case studies.

PSCI 351  *International Political Economy*  Three Credit Hours

This course examines the relationship between economic and political behavior in the international sphere by first examining the three major theoretical perspectives of mercantilism, liberalism, and Marxism. Then it provides an overview of the major components of the modern world economy: multilateral trade, domestic trade policy, international finance and monetary policy, and exchange rates. Finally, the course investigates current issues in the field of international political economy, such as the North-South gap, the role of multinational corporations, and the effects of globalization on employment, migration, and the environment.

PSCI 352  *Global Democracy*  Three Credit Hours

This course explores the question of democratic governance from theoretical and practical perspectives in order to understand what is meant by “measuring democracy”; reasons behind the historical spread of democracy and the numerous challenges-domestic and international; and obstacles to its spread and consolidation. The course incorporates a number of regional and country-specific experiences/case studies related to the democratization process.
PSCI 353  **International Economic and Development Institutions**  Three Credit Hours

Prerequisite: PSCI 351 or permission of the instructor.

This course is an examination of competing theoretical perspectives and approaches to the study of international cooperation and international institutions, their form, membership, and governance structures. Students will gain a working knowledge of the major international economic institutions—in particular the International Monetary Fund, the World Bank Group, and the World Trade Organization as well as regional development banks—including how these institutions operate, their memberships, how they structure their decision making, and the political constraints they face.

PSCI 361  **Law and Legal Process**  Three Credit Hours

This course serves as a general introduction to law, lawyers, judges, and the civil legal process. Through lectures, assigned reading, and class seminars, the course will broadly survey the American legal process, including the nature of law, judicial organization and the instruments of judicial power, civil proceedings and civil law, the work and training of lawyers, the recruitment of judges, and the nature of judicial decision-making. (Note: The criminal justice system is surveyed in CRMJ 201, Introduction to Criminal Justice.)

PSCI 371  **Leadership in Politics**  Three Credit Hours

An introduction to the study and practice of political leadership to include necessary concepts and tools for understanding the elements of causation, constraint, and consequences in relation to leadership responses to challenges both inside and outside political institutions. Students will be introduced to interdisciplinary, cross-cultural, and comparative studies in order to understand the dynamic interplay of moral and rational calculations in relation to political strategy and advantage in contemporary society.

PSCI 391  **Foundations of Political Theory**  Three Credit Hours

Required of political science juniors.

Major theoretical writing from the ancient Greeks to the late medieval period; emphasis on a comparison of ideas and on the relationships between theories and contemporary problems.

PSCI 392  **Modern Political Theory**  Three Credit Hours

Required of political science juniors.

Major theoretical writing from the early modern period to the present day; emphasis on a comparison of ideas and on the relationships between theories and contemporary problems.

PSCI 393  **Research Methods in Political Science**  Three Credit Hours

May be used as a subfield elective.

An examination of methods in the scientific study of political phenomena with emphasis given to the systematic study of politics and contemporary research problems in political science, including research design, data collection, data analysis, and computer applications.
PSCI 396  *Politics and the Media*  Three Credit Hours
An examination of theories of communication, of the relationships between the various types of media and the political world, of the impacts of media on political decision-making, and of political themes found in films, television, literature, and other media forms. Specific topics include the nature and impact of television journalism, the context and political themes of selected films and novels, and the political roles performed by electronic and other forms of media.

PSCI 401  *Political Issues and Public Policy*  Three Credit Hours
An introduction to political analysis through consideration of important contemporary American political issues as they relate to public policy; attention given to specific issues as well as the policy process (formulation, implementation, and evaluation of policy).

PSCI 402  *Politics of Bureaucracy and Public Administration*  Three Credit Hours
An introduction to theories of public administration and bureaucracy and consideration of the role of administration in the governmental process with emphasis on the principles of administrative control, personnel, and fiscal management. The challenges, constraints, and opportunities posed by bureaucracies are also reviewed.

PSCI 403  *Topics in American Government and Politics*  Three Credit Hours
Prerequisite: PSCI 102 (American National Government) or permission of course instructor.
Selected special topics or problems in the general area of American government and politics; offered periodically as the special interests of faculty and students permit.

PSCI 431  *American Foreign Relations*  Three Credit Hours
A study of American foreign policy with emphasis on the institutions and processes in the making of foreign policy and on important problems and developments in the postwar years.

PSCI 433  *Topics in International Politics*  Three Credit Hours
Prerequisite: PSCI 231 (International Politics) or permission of course instructor.
Selected special topics or problems in the general areas of international politics and security affairs; offered periodically as the special interests of faculty and students permit.

PSCI 461  *Issues in Contemporary Constitutional Law*  Three Credit Hours
A study of selected cases and issues in U.S. constitutional law relating to contemporary controversies in American law and politics. The specific issues and cases studied may vary from semester to semester.
PSCI 462  *Constitutional Law: Civil Rights and Liberties*  Three Credit Hours

Required of political science seniors.

A study of the underlying and basic principles of the Constitution as reflected in the leading decisions of the United States Supreme Court with special attention directed to the Bill of Rights and the Thirteenth, Fourteenth, and Fifteenth Amendments.

PSCI 463  *Topics in Law and Legal Studies*  Three Credit Hours

Prerequisite: PSCI 361 (Law and Legal Process) or permission of course instructor.

Selected special topics or problems in the general areas of public law and legal process; offered periodically as the special interests of faculty and students permit.

PSCI 492  *Topics in Political Philosophy and Theory*  Three Credit Hours

Prerequisite: PSCI 392 (Modern Political Theory) or permission of the course instructor. Cannot be used as a subfield elective.

Selected special topics in the general area of political philosophy and theory; offered periodically as the interests of faculty and students permit.

PSCI 498  *Independent Study*  Three Credit Hours

Prerequisite: As determined by instructor.

An independent research project resulting in a formal paper, this study must be approved by the department head in consultation with an appropriate member of the faculty who will supervise the project. Virtually any aspect of politics may be investigated. Especially recommended for those considering graduate or professional study.

PSCI 499  *Internship*  Three Credit Hours

Prerequisite: Permission of director of internships.

Internships with government agencies and private sector entities are offered to combine academic training with professional experience.

PSCI *  *Capstone Seminar in Political Science*  Three Credit Hours

Restricted to political science majors with an academic status of 2B or higher.

Involves writing a major research paper on a topic in Political Science. The papers will be presented and discussed in class with the other members of the seminar.

* Course number to be determined/contact the department
Anthropology Course Descriptions

ANTH 201  General Anthropology  Three Credit Hours
  Man’s biological and cultural origins as studied by physical anthropologists, archaeologists, and linguists.

ANTH 202  Cultural Anthropology  Three Credit Hours
  A comparative study of culture; habitat, technology, and economy; kinship and political organization; life cycles in primitive societies.

ANTH 307  Introduction to Archaeology  Three Credit Hours
  An introduction to archaeology which looks at kinds of prehistoric data and the methods used to obtain and interpret it. Attention will center upon the lives of hunters, food producers, and early community settlements.

ANTH 433  Special Topics in Anthropology  Three Credit Hours
  Selected topics or problems in the general area of anthropology and related group cultural processes; offered periodically as the special interests of faculty and students permit.
**POLITICAL SCIENCE MAJOR**

**Subfield A—American Government and Politics**

**First Semester**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
</tr>
<tr>
<td>American National Government</td>
<td>PSCI 102</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Statistical Methods</td>
<td>STAT 160</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
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<td>1st Year Basic ROTC</td>
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<td>101 1 (1,0)</td>
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**Freshman Year**

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<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
<td></td>
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<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201</td>
<td>1 (1,0)</td>
</tr>
<tr>
<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
<td>0 (0,1)</td>
</tr>
<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>International Politics</td>
<td>PSCI 231</td>
<td>3 (3,0)</td>
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<td>General Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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<td>201 2 (2,0)</td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
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<tr>
<td>JUNIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Political Parties</td>
<td>PSCI 301</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>++Subfield Elective</td>
<td>PSCI 3</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>ECON 202</td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>(0,1)</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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<tr>
<td>SENIOR YEAR</td>
<td></td>
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</tr>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>Political Issues and Public Policy</td>
<td>PSCI 401</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Constitutional Law: Civil Rights</td>
<td>PSCI 462</td>
<td>3 (3,0)</td>
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<tr>
<td>++Subfield Elective</td>
<td>PSCI 3</td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>(0,1)</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.

++Majors must concentrate in one of three subfields: American Government and Politics, International Politics and Military Affairs, or Law and Legal Studies.
POLITICAL SCIENCE MAJOR
Subfield A—American Government and Politics
Second Semester

FRESHMAN YEAR
Freshman Seminar ................................................. FSEM 101 3 (3,0)
Freshman Linked Writing Intensive ................................. FSWI 101 3 (3,0)
**Freshman Science ............................................. 4 (3,2)
Modern Language ..................................................... 3 (3,0)
General Elective ..................................................... 3 (3,0)
1st Year Basic ROTC .................................................. 102 1 (1,0)

SOPHOMORE YEAR
Communications in Business ........................................ COMM 216 3 (3,0)
Strand Social Science ................................................. SCSS 30x 3 (3,0)
Strand Natural Science ............................................... NTSS 30x 3 (3,0)
Comparative Politics ................................................... PSCI 232 3 (3,0)
General Elective ..................................................... 3 (3,0)
2nd Year Basic ROTC .................................................

JUNIOR YEAR
American Political Thought or ....................................... PSCI 304, or 3 (3,0)
Ancient/Medieval Political Theory or ......................... 391, or
Modern Political Theory or ........................................ PSCI 392, or
Topics in Political Philosophy and Theory ..................... 492
Urban Politics or ..................................................... PSCI 302 or 3 (3,0)
Legislative Process .................................................. 306
Strand Elective ....................................................... ELES 30x 3 (3,0)
History Elective ..................................................... HIST 3 (3,0)
General Elective ..................................................... 3 (3,0)
1st Year Advanced ROTC ............................................

SENIOR YEAR
**Political Science Senior Captstone ............................. PSCI 3 (3,0)
Political Science Elective .......................................... PSCI 3 (3,0)
++Subfield Elective .................................................. PSCI 3 (3,0)
+SHSS Elective ....................................................... 3 (3,0)
History Elective ..................................................... HIST 3 (3,0)
2nd Year Advanced ROTC ............................................

+Non-PSCI Humanities/Social Science upper level course.
**Senior Capstone course number to be determined/contact the department.

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### POLITICAL SCIENCE MAJOR
Subfield B—International Politics and Military Affairs
First Semester

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Lecture</th>
<th>Lab</th>
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<tr>
<td>First Year Experience</td>
<td></td>
<td>LDRS 101</td>
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</tr>
<tr>
<td>American National Government</td>
<td>PSCI 102</td>
<td>3</td>
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<tr>
<td>Statistical Methods</td>
<td>STAT 160</td>
<td>3</td>
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</tr>
<tr>
<td>Modern Language</td>
<td>RPED 260</td>
<td>3</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
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<td>General Elective</td>
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<td>1st Year Basic ROTC</td>
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**SOPHOMORE YEAR**

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<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Lecture</th>
<th>Lab</th>
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<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/211</td>
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<td>0</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td></td>
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<tr>
<td>Communications in Business</td>
<td>COMM 216</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Modern Language</td>
<td>RPED 260</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>International Politics</td>
<td>PSCI 231</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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</table>

**JUNIOR YEAR**

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
<th>Lecture</th>
<th>Lab</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>International Political Economy</td>
<td>PSCI 351</td>
<td>3</td>
<td></td>
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<tr>
<td>++Subfield Elective</td>
<td>PSCI 351</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Politics Elective</td>
<td>PSCI 351</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
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<td>General Elective</td>
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<td>3</td>
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<tr>
<td>Required Physical Education</td>
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**SENIOR YEAR**

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<tr>
<th>Course</th>
<th>Credit</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Foreign Relations</td>
<td>PSCI 431</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Constitutional Law: Civil Rights</td>
<td>PSCI 462</td>
<td>3</td>
<td></td>
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<tr>
<td>American Politics Elective</td>
<td>PSCI 351</td>
<td>3</td>
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<tr>
<td>+SHSS Elective</td>
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<td>3</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
+Non-PSCI Humanities/Social Science upper level course.
++Majors must concentrate in one of three subfields: American Government and Politics, International Politics and Military Affairs, or Law and Legal Studies.
### FRESHMAN YEAR
- **Freshman Seminar** ........................................... FSEM 101 3 (3,0)
- **Freshman Linked Writing Intensive** ....................... FSWI 101 3 (3,0)
- **Freshman Science** ........................................... 4 (3,2)
- **Modern Language** ........................................... 3 (3,0)
- **General Elective** ........................................... 3 (3,0)
- **1st Year Basic ROTC** ....................................... 102 1 (1,0)

### SOPHOMORE YEAR
- **Comparative Politics** ....................................... PSCI 232 3 (3,0)
- **Strand Natural Science** ......................................... NTSS 30x 3 (3,0)
- **General Elective** ........................................... 3 (3,0)
- **General Elective** ........................................... 3 (3,0)
- **2nd Year Basic ROTC** .........................................

### JUNIOR YEAR
- **Leadership in Organizations** ............................. LDRS 371 3 (3,0)
- **American Political Thought** or ......................... PSCI 304 or 3 (3,0)
  - **Ancient/Medieval Political Theory** or ............... 391, or
  - **Modern Political Theory** or .......................... 392, or
  - **Topics in Political Philosophy and Theory** .......... 492
- **National Security Policy** ................................ PSCI 332 3 (3,0)
- **History Elective** ........................................... HIST 3 (3,0)
- **Strand Elective** ........................................... ELES 30x 3 (3,0)
- **1st Year Advanced ROTC** .................................

### SENIOR YEAR
- **Political Science Senior Captstone** ..................... PSCI 3 (3,0)
- **Subfield Elective** ........................................... PSCI 3 (3,0)
- **Subfield Elective** ........................................... PSCI 3 (3,0)
- **History Elective** ........................................... HIST 3 (3,0)
- **General Elective** ........................................... 3 (3,0)
- **2nd Year Advanced ROTC** .................................

***Senior Capstone course number to be determined/contact the department.***

**REQUIRED FOR GRADUATION:** 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### FRESHMAN YEAR

<table>
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<tr>
<th>Course</th>
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<td>Modern Language</td>
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<td>Physical Fitness, Resiliency, and Wellness</td>
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### SOPHOMORE YEAR

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<td>Principles of Macroeconomics</td>
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### JUNIOR YEAR

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### SENIOR YEAR

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<td>Constitutional Law: Civil Rights</td>
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<td>Required Physical Education</td>
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*Represents semester credit, lecture, and laboratory hours, in that order.
**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
++Majors must concentrate in one of three subfields: American Government and Politics, International Politics and Military Affairs, or Law and Legal Studies.
# POLITICAL SCIENCE MAJOR

## Subfield C—Pre-Law and Legal Studies

### Second Semester

**FRESHMAN YEAR**

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**SOPHOMORE YEAR**

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<td>Communications in Business</td>
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**JUNIOR YEAR**

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<tr>
<td>Law and Legal Process</td>
<td>PSCI</td>
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<td>Strand Social Science</td>
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<td>History Elective</td>
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**SENIOR YEAR**

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<td><strong>Political Science Senior Captstone</strong></td>
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<td>Constitutional Law: Powers of Government</td>
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<td>++Subfield Elective</td>
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**Senior Capstone course number to be determined/contact the department.**

**Non-PSCI Humanities/Social Science upper level course.**

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Psychology

Department Head: Taylor  
Professors: Hanchon, Lassiter, Matthews, Nida, Taylor  
Associate Professors: Fernald, Sawyer, Macdonald  
Assistant Professors: Parrish, Dawes, Eddy

The major in psychology is designed around a broad liberal education whereby the humanities and the sciences are integrated through an emphasis on the study of human behavior. Students in psychology develop an approach to learning based on empirical, objective methodology and statistical data analysis. These skills enhance critical thinking and permit theory construction and analysis. Students who graduate from this program are expected to have the knowledge base and the data analysis skills to support graduate study in any of the specialty areas of psychology. They also should be well prepared for employment in positions that require understanding and motivating others. Examples of such employment areas include positions in personnel work, social service and mental health agencies, law enforcement, sales, and business.

The major in psychology aligns with the American Psychological Association Guidelines for the Undergraduate Psychology Major 3.0 (2013). The structure of the psychology major fits with the five main areas of focus advocated by the guidelines: 1) emphasis on the basic knowledge of concepts in the discipline in psychology; 2) emphasis on scientific methods and critical thinking; 3) emphasis on ethics, social responsibility, and diversity; 4) emphasis on effective communication skills; and 5) emphasis on professional development.

The major program in psychology, which leads to the Bachelor of Arts degree, consists of a minimum of 36 hours of course work in psychology, including PSYC 211 (or PSYCH 201), PSYC 202, PSYC 203, PSYC 303, PSYC 310, PSYC 405, and PSYC 410. Students also will choose two courses from both Cluster A and Cluster B classes. Cluster A consists of PSYC 302, PSYC 311, PSYC 314, PSYC 318, PSYC 402, and PSYC 403. Cluster B consists of PSYC 304, PSYC 305, PSYC 306, PSYC 312, PSYC 313, PSYC 315, PSYC 316, and PSYC 317. The total number of classes across both clusters will be four. Students will also select one additional elective class from either Cluster A or Cluster B; alternatively, a special topics class (PSYC 463) may be used to satisfy this particular elective requirement.

All undergraduate courses taken at The Citadel with a subject prefix of PSYC will count towards the major GPA.

The department also offers elective courses to majors in other academic disciplines.

The Department of Psychology offers graduate degree programs leading to the Ed.S. degree in School Psychology and the M.A. in Psychology: Clinical Counseling.
The Department of Psychology also sponsors the Psychology Club, which is open to all students interested in the study of human behavior regardless of their major. The club seeks to stimulate and maintain interest in scholarship and service and to promote closer social and intellectual association among students.

Psi Chi, the national honor society in Psychology, has a Citadel chapter open to undergraduate majors or minors with a 3.000 average who rank in the top third of their class. Psi Chi activities promote scholarship and research that prepare students for graduate school or other future endeavors in psychology.

**Minor in Psychology**

*Objectives:*

The Psychology Department recognizes that students from many diverse fields and areas of interest (e.g., business administration, pre-law, pre-med, education, law enforcement, and the military) may benefit from more in-depth knowledge of the behavioral sciences. The minor in psychology is designed to allow students maximum flexibility in choosing courses to complement their current major.

*Competencies, Knowledge or Skills to be Achieved:*

Students minoring in psychology have the opportunity to enhance their critical thinking and problem-solving skills. Students will also develop the ability to review the scientific literature and communicate their findings through multiple media (oral presentations, written papers, and paper presentations at conferences). The curriculum for the minor has been arranged to maximize the flexibility needed to match the student’s individual career goals while at the same time ensuring a knowledge of the broad areas of psychology.

*This minor is not approved for students majoring in psychology.*

*Structure of the Minor:*

1. **Required Courses: (9 credit hours)**
   - PSYC 201 General Psychology
   - PSYC 203 Research Design in Psychology
   - PSYC 303 Experimental Psychology

2. **Electives: (6 credit hours)**
   Choose two additional Psychology courses.

*Total Credit Hours Required: 15, 9 of which must be completed at The Citadel.*
PSYC 201  General Psychology  Three Credit Hours
An introduction to the scientific study of behavior; emphasis upon experimental investigation of such fields as development, cognition, perception, motivation, learning, emotions, physiology, and personality.

PSYC 211  Introduction to Psychology Science  Three Credit Hours
This survey course provides an introduction to the diverse scientific field of psychology. The course is for psychology majors only and as such it is intended to prepare students for their progression into the major by way of an enhanced emphasis on psychology as a scientific discipline. Topics covered will include the history of psychology, biological determinants of behavior, perception, learning and memory, motivation and emotion, human development, personality, social behavior, and psychological disorders and their treatment.

PSYC 202  Developmental Psychology  Three Credit Hours
A study of the development of the individual from prenatal to senescent stages, emphasizing growth in intelligence, motor behavior, perception, cognition, socialization, and emotion. Empirical findings and theoretical interpretations in the study of human behavior will be explored.

PSYC 203  Consumer Statistics & Research Applications  Three Credit Hours
Prerequisite: PSYC 201
An introduction to descriptive and inferential statistics used in psychological experimentation. Particular emphasis is placed upon hypothesis testing by means of the t-test and randomized designs of the analysis of variance.

PSYC 302  Behavioral Neuroscience  Four Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster A.
This course explores the role of biological factors in human experience and behavior. Students will develop a fundamental understanding of the structure and functions of the nervous system. Students will learn about the biological underpinnings of various behaviors, including vision, emotions, sleep, biological rhythms, learning, memory, drug addiction, neurological and psychological disorders. Students also will engage in laboratory experiences to further enhance their learning about the brain and nervous system.

PSYC 303  Experimental Psychology  Three Credit Hours
Prerequisite: PSYC 203
This course introduces students to the methods of scientific inquiry used by psychologists. Students will learn how to design studies and how to analyze data using computer programs. Emphasis will be placed on critical thinking and clear communications.
PSYC 304  Abnormal Psychology  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster B.
A study of fundamental theory and research in the area of abnormal behavior. Emphasis is on symptoms, etiology, and treatment of psychopathology and behavior problems.

PSYC 305  Social Psychology  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster B.
A study of the individual in relation to his social environment with special attention to group behavior, communication, conformity, leadership, aggression, and interpersonal attraction.

PSYC 306  Theories of Personality  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster B.
A study of major contemporary theories of personality with special emphasis on the biological and psychological foundations and integrative aspects of personality.

PSYC 310  Professional Development in Psychology  Three Credit Hours
Prerequisite: PSYC 201
A seminar course designed to prepare students for a variety of careers in psychology. Topics include: an examination of the variety of jobs available in psychology, how to apply to graduate school or for a job, writing a formal research paper, and interviewing techniques.

PSYC 311  Comparative Cognition  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster A.
This course will offer a critical review of the theoretical and experimental literatures in the area of comparative cognition. Comparative cognition is the scientific study of animal psychology and underlying cognitive processes as they exist across species. This course will focus on the experimental approaches and practical applications of studying the cognitive processes and behaviors of animals.

PSYC 312  Psychology of Human Sexuality  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster B.
This course provides an exploration of the physiological, social, cultural, and individual factors that influence human sexual behavior. Students will gain a basic understanding of how psychologists study human sexuality and develop theories that shape our thinking about sex.

PSYC 313  Psychology of Gender  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster B.
Investigation of the psychological and physiological determinants of gender differences and similarities in behavior, covering topics such as cognitive functioning, social relationships, mental health, and the work place.
PSYC 314  *Nature and Nurture in Psychology*  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors).  *Cluster A.*

This course examines human development (both typical and atypical) through the lens of a developmental psychopathology perspective. More specifically, this course focuses on how biological and environmental forces interact to shape human development. Developmental processes will be examined through a review of current research. Students are provided with an overview of the field of developmental psychopathology, including issues related to etiology, typical and atypical developmental processes, developmental pathways, neuroscience, assessment, and prevention and intervention.

PSYC 315  *Military Psychology*  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors).  *Cluster B.*

A seminar to provide foundational knowledge about psychology in the military, including the history of psychology in the military, current and psychological practices. There will be a particular emphasis on the use of principles of psychology to support readiness and resiliency in a military setting.

PSYC 316  *Sport Psychology*  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors).  *Cluster B.*

This course will examine a wide range of psychological factors relating to participation in sport and athletic performance, and to physical activity more generally. Particular emphasis will be given to social psychological variables affecting participation and performance and their relationship to the psychological well-being of the individual athlete, to include attention to sports fans and sports marketing.

PSYC 317  *Multicultural Issues in Psychology*  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors).  *Cluster B.*

This course examines the influences of cultural, ethnic, minority, gender, socioeconomic, and other important group factors on psychological, educational and social development. Particular attention will be focused on variations in experiences and perceptions of individuals from divergent backgrounds as these can affect psychological and social functioning. Students will learn about a variety of identity groups and will engage in experiences that will offer opportunities for them to shift focus from their own perspectives to that of people from different backgrounds.
PSYC 318 Psychology of Drugs and Addictive Behavior

Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster A.

This course introduces students to the social and biological bases of drug use and addiction. Drug use throughout history and its effects on society are discussed. The neural basis of drug action and the effects of addiction on the brain and behavior are also examined. Students will learn about several classes of drugs, including hallucinogens, stimulants, depressants, psychoactive and other restricted drugs. Treatment for addiction to drugs will also be discussed.

PSYC 319 Psychological Resiliency

The overall goals of this course are to provide students with 1) foundational knowledge about psychology in the military, and 2) theoretical information on the interaction between physical and mental health, with an emphasis on service member and veteran readiness and resiliency. In service of these goals, this course provides an overview of military systems, the history and current practice of psychology in the military (e.g., assessment, clinical and consulting activities), and the military’s emphasis on readiness and resiliency, with an emphasis on the interconnectedness of mind, body, and spiritual wellness. Material will be presented through lecture, small group discussion, and practical assignments.

PSYC 320 Memory Sins & Criminal Justice System

This course will offer a critical review of the theoretical and experimental literatures in the area of memory research, particularly as it relates to the criminal justice system, law, and other applications. Special emphasis will be given to integrating concepts, principles, and skill learned throughout earlier courses in both majors and related disciplines, with a key focus on critical thinking, writing, and communication.

PSYC 371 Psychology of Leadership

This course examines leadership theory and contemporary trends in leadership, organizational behavior, and the management of human resources as they are related to the emergence and effectiveness of leaders.

PSYC 402 Cognitive Psychology

Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster A.

This course surveys the theoretical and empirical work in the area of cognitive psychology. Topics include sensation and perception, pattern recognition, attention, memory, problem solving, language, decision-making, and comprehension. Students will become familiar with models of cognition through discussion and experiential exercises.

PSYC 403 Practical Applications of Learning and Behavior Change

Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors). Cluster A.

A comprehensive and critical review of the experimental literature in the area of learning and motivation, including the major learning theories and the motivational determinants of behavior.
PSYC 404  Industrial/Organizational Psychology  Three Credit Hours
Prerequisite: PSYC 201
Application of psychological principles to the world of work. Specific topics include concepts of work, job satisfaction, personnel selection, performance appraisal, human engineering, leadership, and organizational behavior.

PSYC 405  History and Systems of Psychology  Three Credit Hours
Prerequisite: PSYC 203, PSYC 303 (Psychology majors only); PSYC 201 (non-majors).
Historical survey of psychology, emphasizing contributions of major “schools” of psychology, theories, their place in science, and current theoretical trends.

PSYC 407  Psychological Testing  Three Credit Hours
Prerequisite: PSYC 201
A survey of the theory and principles of psychological testing, demonstration and discussion of representative tests of intelligence, aptitude, achievement, interests, and personality.

PSYC 410  Senior Capstone in Psychology  Three Credit Hours
This course fulfills The Citadel’s Senior Capstone course for graduating Psychology majors. In partial fulfillment of this course, students will complete a mandatory internship with an off-campus organization or business. In conjunction, students will discuss topical issues affecting their growth as psychology students, interns, and upcoming college graduates. The goal of this course is to provide professional development opportunities that will increase one’s ability to meet the post-graduate transition. Moreover, this course is designed to satisfy and assess the six Value Rubrics as outlined by The Citadel’s General Education Curriculum.

PSYC 418  Experiential Leadership in Psychology I  Three Credit Hours
Prerequisite: Permission of professor or department head
Open to majors or non-majors; may potentially be applied toward the Minor in Leadership Studies.

PSYC 418 and PSYC 419 provide opportunities for individualized and mentored internship, research, and leadership experiences in psychology and related disciplines. Students may take one or both courses. If taking both, students may select different mentors or different options for the two courses but are encouraged to attempt more than one type of experience and to demonstrate a developmental progression in the nature and extent of their leadership within and across courses.
PSYC 419  *Experiential Leadership in Psychology II*  Three Credit Hours  
Prerequisite: Permission of professor or department head  
Open to Majors or non-majors; may potentially be applied toward the Minor in Leadership Studies  
PSYC 418 and PSYC 419 provide opportunities for individualized and mentored internship, research, and leadership experiences in psychology and related disciplines. Students may take one or both courses. If taking both, students may select different mentors or different options for the two courses but are encouraged to attempt more than one type of experience and to demonstrate a developmental progression in the nature and extent of their leadership within and across courses.

PSYC 420  *Research Project*  Three Credit Hours  
Prerequisite: Permission of department head  
An independent research project culminating in a formal paper. Strongly recommended for students planning graduate study. Approval for enrollment based on capability of applicant and the acceptance of a written proposal.

PSYC 463  *Special Topics in Psychology*  One to Three Credit Hours  
Prerequisites: PSYC 201 and permission of department head  
This course is designed to focus on a current problem, technique, or theory in the field of psychology.  
Required courses provide a solid foundation, preparing students for graduate education or entry level employment. The field of psychology is much more diverse than can be fully reflected in our required curriculum, yet limited resources make a full slate of elective courses in psychology impossible. Through special topics courses, the department can offer (on an occasional basis) exposure to the frontiers of the field while maintaining a focus on the mainstream of psychology through required courses. **Notes**
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<th>PSYCHOLOGY MAJOR</th>
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<td>Research Design in Psychology</td>
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<td>Strand English</td>
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<tr>
<td>General Elective</td>
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<td>General Elective</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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<tr>
<td>Junior Year</td>
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<tr>
<td>Junior Ethics Enrichment Experience</td>
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<tr>
<td>Leadership in Organizations</td>
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<tr>
<td>Cluster A Elective</td>
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<tr>
<td>Cluster B Elective</td>
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<tr>
<td>Psychology Elective</td>
</tr>
<tr>
<td>Strand History</td>
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<tr>
<td>Required Physical Fitness</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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<tr>
<td>Senior Year</td>
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<tr>
<td>Senior Leadership Integration Seminar</td>
</tr>
<tr>
<td>Strand Social Science</td>
</tr>
<tr>
<td>Contemporary Issues in Psychology</td>
</tr>
<tr>
<td>General Elective or PSYC Elective++</td>
</tr>
<tr>
<td>Fine Arts Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Required Physical Fitness</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
***This requirement will be fulfilled by taking any course in the School of Humanities and Social Sciences, at the 200-level or above, outside of the student’s major or minor.
++PSYC elective may be taken either in the fall or spring semester. Students will take a general elective course in the semester in which it is not taken. PSYC elective can be: 1) Cluster A or B course that has not been taken to meet the Cluster A and B requirements, or 2) any PSYC 463 Special Topics course.
PSYCHOLOGY MAJOR

Second Semester

FRESHMAN YEAR
**Freshman Science ........................................ 4  (3,1)
Modern Language ............................................. 3  (3,0)
Developmental Psychology .......................... PSYC  202  3 (3,0)
General Elective.............................................. 3 (3,0)
General Elective.............................................. 3 (3,0)
1st Year Basic ROTC ...................................... 102  1 (1,0)

SOPHOMORE YEAR
Experimental Psychology ...................... PSYC  303  4 (3,2)
Professional Development in Psychology .... PSYC  310  3 (3,0)
Strand Natural Science......................... NTSS  30x  4 (3,2)
General Elective.............................................. 3 (3,0)
General Elective.............................................. 3 (3,0)
2nd Year Basic ROTC .................................

JUNIOR YEAR
Strand Elective................................................. ELES  3 (3,0)
Cluster A Elective ...................................... PSYC  3 (3,0)
Cluster B Elective ...................................... PSYC  3 (3,0)
***Humanities/Social Sciences Elective....... 3 (3,0)
General Elective.............................................. 3 (3,0)
1st Year Advanced ROTC ..............................

SENIOR YEAR
History and Systems of Psychology .......... PSYC  405  3 (3,0)
Psychology Elective...................................... PSYC  3 (3,0)
General Elective or PSYC Elective++ ........ 3 (3,0)
General Elective.............................................. 3 (3,0)
General Elective.............................................. 3 (3,0)
2nd Year Advanced ROTC .............................

REQUIRED FOR GRADUATION: 124 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
SWAIN FAMILY SCHOOL OF SCIENCE AND MATHEMATICS

Col. Darin Zimmerman, Dean

Department of Biology
Col. John Weinstein, Head

Department of Chemistry
Lt. Col. Robert M. Granger II, Head

Department of Cyber and Computer Sciences
Col. Shankar Banik, Head

Department of Health and Human Performance
Lt. Col. Timothy Bott, Head

Department of Mathematical Sciences
Col. Mei-Qin Chen, Head

Swain Department of Nursing
Lt. Col. Amelia M. Joseph, Head

Department of Physics
Col. Henry "Hank" M. Yochum, Head
Department of Biology

Department Head: Weinstein
Professors: Gramling, J., Gustafson, Nolan, Weinstein, Zardus
Associate Professors: Donnell, Johnson, Rocha, Zanin
Assistant Professor: Moran
Instructor: Gramling, A.

The Biology Department is structured to offer courses which give students a better understanding of themselves, their relationship with their environment, and the diversity of life. Enrichment courses with minimum prerequisites are offered in summer and evening programs for interested individuals.

B.S. Biology Major

The B.S. in Biology degree is intended for those students who plan to enter graduate, medical, dental, veterinary, or other professional schools; military service; and technical positions in the broader field of biology. The major is designed to provide students with a broad background in modern biology that will prepare them for employment or further study. All students majoring in biology are required to take the Introduction to Biology I and II sequence (BIOL 130, 131, 140, 141), Cell Biology (BIOL 210, 211), Evolution (BIOL 208), Genetics (BIOL 308), Ecology (BIOL 406), and Senior Seminar (BIOL 411).

All undergraduate courses taken at The Citadel with a subject prefix of BIOL will count towards the major GPA.

Students must take four additional biology electives. One must be chosen from each of the following course groupings:

**Cell and Molecular Biology Courses:**
BIOL 290 Microbiology
BIOL 340 Pathophysiology
BIOL 341 Pharmacology
BIOL 401 Developmental Biology
BIOL 402 Descriptive Histology
BIOL 424 Molecular Genetics
BIOL 427 Immunology

**Ecology and Field Biology Courses:**
BIOL 314 Vascular Flora of South Carolina
BIOL 407 Conservation Ecology
BIOL 408 Ornithology
BIOL 409 Marine Biology
BIOL 425 Tropical Rainforest and Reef Ecology
BIOL 426 Freshwater Biology

**Organismal Biology Courses:**
BIOL 203 Introduction to Plant Biology
BIOL 301 Invertebrate Zoology
BIOL 302 Comparative Vertebrate Anatomy
BIOL 309 Animal Behavior
BIOL 410 Vertebrate Natural History
BIOL 419 Economic Botany
BIOL 421 Toxicology
Physiological Biology Courses:
BIOL 403  Mammalian Physiology
BIOL 414  Environmental Physiology

Bachelor of Science in Biology/Secondary Teaching Specialization
The Bachelor of Science in Biology/Secondary Teaching Specialization major is designed to provide students with a broad background in modern biology that will prepare them for certification to teach Biology and General Science at the secondary school level. All students choosing this major are required to take the Introduction to Biology I and II sequence (BIOL 130, 131, 140, 141), Cell Biology (BIOL 210, 211), Evolution (BIOL 208), Genetics (BIOL 308), Methods and Applications of Science (BIOL 330), Ecology (BIOL 406), and Senior Seminar (BIOL 411). Students must take four additional biology electives chosen from the list below and all other indicated courses. Students in this program must make a formal application for admission to the School of Education for the Internship in Teaching as outlined on page 165.

All undergraduate courses taken at The Citadel with a subject prefix of BIOL, EART, EDUC and STAT will count towards the major GPA.

Biology Electives: One course must be chosen from each of the three areas below.

Animal Physiology Area
BIOL 403  Mammalian Physiology
BIOL 414  Environmental Physiology

Botany Area
BIOL 203  Introduction to Plant Biology
BIOL 314  Vascular Flora of South Carolina

Zoology Area
BIOL 301  Invertebrate Zoology
BIOL 302  Comparative Vertebrate Anatomy
BIOL 408  Ornithology
BIOL 410  Vertebrate Natural History

Allied Science and Mathematics Courses
CHEM 151/161  General Chemistry I
CHEM 152/162  General Chemistry II
EART 201  Earth Science
MATH 106/107  Applied Calculus I and II
PHYS 203/253  College Physics I
PHYS 204/254  College Physics II
STAT 160  Statistical Methods
**Required Education Courses**

- EDUC 101  Education in Modern Society
- EDUC 202  Educational Psychology
- EDUC 206  Adolescent Development
- EDUC 306  Teaching Reading in the Middle and High School
- EDUC 312  Learners with Exceptionalities
- EDUC 401  Methods and Materials of Middle and High School Teaching
- EDUC 402  Special Methods in Teaching
- EDUC 499  Internship in Teaching (Spring Semester Senior Year)

**Core Curriculum Courses**

- **First Year Experience**
  - LDRS 101

- **Mathematics**
  - Counted above

- **English**
  - ENGL 101/102/201/elective

- **History**
  - HIST 103/104 or 105/106

- **Science**
  - Counted above

- **Social Science**
  - ANTH 202, PSCI 102, PSYC 201, or SOCI 201

- **HESS**
  - Two Activity Courses

- **HESS**
  - RPED 250/251

**ROTC Courses**

- AERO, MLTY, or NAVL sequence (101, 102, 201, 202, 301, 302, 401 and 402)

**Premedical-Predental Program**

Students who are planning to enter medical school, dental school, veterinary school, or professional school in allied health should consider the B.S. Biology major. The flexibility of the major course of study permits the preprofessional students to tailor their plans of study to each area of specialty. The department coordinates a voluntary program where students may gain practical experience before graduation. The large number of electives available in the biology curriculum makes it possible for the student to develop the broad science-humanities background necessary in the medical or dental profession.

**Research Opportunities**

The Biology Department strongly urges majors to engage in research under the direction of a Citadel faculty member. The best way to learn science is to become actively involved in doing science and the Biology Department faculty offer majors many opportunities to become involved in their research programs. Majors can earn academic credit for research by enrolling in BIOL 320 (Intern Research) or in the undergraduate research series (BIOL 321-324). These courses can be used once as a biology elective and may be repeated one time as a general elective.
**Minor in Biology**

Students seeking a minor in Biology will be required to complete either the General Biology I and II sequence (BIOL 101, 102, 111, 112) or the Introduction to Biology I and II sequence (BIOL 130, 131, 140, 141). A minimum of 12 additional credit hours is required for the minor. One course must be selected from each of the three areas listed below and at least two of these courses must involve laboratory work.

### Cell and Molecular Category Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 210</td>
<td>Cell Biology</td>
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<tr>
<td>BIOL 211</td>
<td>Cell Biology Laboratory</td>
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<tr>
<td>BIOL 290</td>
<td>Microbiology</td>
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<tr>
<td>BIOL 308</td>
<td>Genetics</td>
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<tr>
<td>BIOL 340</td>
<td>Pathophysiology</td>
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<tr>
<td>BIOL 341</td>
<td>Pharmacology</td>
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<tr>
<td>BIOL 401</td>
<td>Developmental Biology</td>
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<tr>
<td>BIOL 402</td>
<td>Descriptive Histology</td>
</tr>
<tr>
<td>BIOL 424</td>
<td>Molecular Genetics</td>
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<tr>
<td>BIOL 427</td>
<td>Immunology</td>
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</tbody>
</table>

### Field Biology Category Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Environmental Science</td>
</tr>
<tr>
<td>BIOL 314</td>
<td>Vascular Flora of South Carolina</td>
</tr>
<tr>
<td>BIOL 406</td>
<td>Ecology</td>
</tr>
<tr>
<td>BIOL 407</td>
<td>Conservation Ecology</td>
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<tr>
<td>BIOL 408</td>
<td>Ornithology</td>
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<tr>
<td>BIOL 409</td>
<td>Marine Biology</td>
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<tr>
<td>BIOL 410</td>
<td>Vertebrate Natural History</td>
</tr>
<tr>
<td>BIOL 425</td>
<td>Tropical Rainforest and Reef Ecology</td>
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<tr>
<td>BIOL 426</td>
<td>Freshwater Biology</td>
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</tbody>
</table>

### Organismal Category Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 203</td>
<td>Introduction to Plant Biology</td>
</tr>
<tr>
<td>BIOL 208</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL 217</td>
<td>Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIOL 218</td>
<td>Human Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIOL 227</td>
<td>Human Anatomy and Physiology I Laboratory</td>
</tr>
<tr>
<td>BIOL 228</td>
<td>Human Anatomy and Physiology II Laboratory</td>
</tr>
<tr>
<td>BIOL 291</td>
<td>History of Biology</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Invertebrate Zoology</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Comparative Vertebrate Anatomy</td>
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<tr>
<td>BIOL 309</td>
<td>Animal Behavior</td>
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<tr>
<td>BIOL 403</td>
<td>Mammalian Physiology</td>
</tr>
<tr>
<td>BIOL 414</td>
<td>Environmental Physiology</td>
</tr>
<tr>
<td>BIOL 419</td>
<td>Economic Botany</td>
</tr>
<tr>
<td>BIOL 421</td>
<td>Toxicology</td>
</tr>
</tbody>
</table>

*Total Credit Hours Required:* 12 credit hours beyond the general education requirement, 9 of which must be completed at The Citadel
Minor in Molecular Biology and Biochemistry

The Departments of Biology and Chemistry offer a joint minor in Molecular Biology and Biochemistry. This minor will be beneficial to students interested in careers in medicine, dentistry, and other health science fields as well as those who wish to pursue careers in the chemical and biochemical industry. Active learning exercises, use of scientific literature, computer modeling, inquiry-based laboratories, and research are important components of the courses in the sequence. Requirements for the minor vary slightly depending on the student’s major. The following courses are prerequisites for the minor: BIOL 130/131 and 140/141; CHEM 151/161, 152/162, 207/217, and 208/218.

Requirements for Students Majoring in Biology
BIOL 424 Molecular Genetics
BIOL or CHEM 429 Literature Seminar
CHEM 409 Biochemistry I
CHEM 410 Biochemistry II
CHEM 460 Biochemistry Laboratory
BIOL 290 Microbiology
or
CHEM 300 Quantitative Analysis

Requirements for Students Majoring in Chemistry
BIOL 308 Genetics
BIOL 424 Molecular Genetics
BIOL or CHEM 429 Literature Seminar
CHEM 409 Biochemistry I
CHEM 410 Biochemistry II
CHEM 460 Biochemistry Laboratory

Requirements for All Other Majors
BIOL 308 Genetics
BIOL 424 Molecular Genetics
BIOL or CHEM 429 Literature Seminar
CHEM 409 Biochemistry I
CHEM 410 Biochemistry II
CHEM 460 Biochemistry Laboratory

Total Credit Hours Required: 16 credit hours, 9 of which must be completed at The Citadel

Minor in Sustainability and Environmental Studies

Objectives:
The minor in sustainability and environmental studies is an interdisciplinary minor designed to help undergraduate students gain environmental science literacy; develop an understanding of the environment and an appreciation of sustainability from a variety of perspectives such as business and engineering; and create and/or participate in a project related to local environmental and sustainability efforts. Students pursuing the minor will have the opportunity to take a variety of classes addressing sustainability and environmental studies culminating in a capstone course. The capstone course will provide the students a chance to build upon their previous coursework in the minor through a semester long research project, service-learning activity or internship.
Potential Students:
The minor may be appropriate for undergraduate students from all five schools who are interested in the environment and sustainability. Possible areas of interest could include sustainable agriculture, environmental degradation, supply chain sustainability, environmental history or environmental economics.

Requirements:
To complete a minor in sustainability and environmental studies, students must take a minimum of 15 credit hours from the approved list of courses listed below.

REQUIRED COURSES:
Must take both of the following:
- BIOL 209: Environmental Science (1st course)
- Capstone Course: Including EDUC 409: Service Learning in Environmental and Sustainability Studies, BIOL 320: Intern Research, or similarly approved high-impact experiences.

OPTIONAL COURSES:
Must take THREE of the following:

- SCMT 302 – Quality Management
- SCMT 402 – Purchasing and Materials Management
- SCMT 304- Project Management
- MGMT 311 – Human Resource Management
- CIVL 322 – Introduction to Environmental Engineering
- CIVL 408 – Water and Wastewater Systems
- MECH 417 – Renewable Energy
- ELEC 427 – Energy Systems Engineering
- HIST 392 – Special Topics in History*** (Environmental History)
- PSCI 433 – Special Topics in International Politics*** (Global Environment)
- BIOL 292 – Leadership for Environmental Sustainability
- BIOL 314 – The Vascular Flora of South Carolina
- BIOL 406 – Ecology
- BIOL 407 – Conservation Ecology
- BIOL 409 – Marine Biology
- BIOL 414 – Environmental Physiology
- BIOL 419 – Economic Botany
- BIOL 412 – Special Topics in Biology***
- BIOL 421 – Toxicology
- BIOL 426 – Freshwater Biology
- PHYS 243 – Meteorology
- PHYS 301 – Biological Physics
- PHYS 343 – Applied Climatology
- EART 201 – Introduction to Earth Science
- EDUC 409 – Special Topics in Education***

*note only one course can be counted for both a major and a minor

**CIVL 322 and CIVL 408 can be appropriate for non-CE STEM majors. These non-CE STEM majors must complete CHEM 151/161 as a pre-requisite for
CIVL 322 and CIVL 322 as a prerequisite for CIVL408. The CE department must be notified prior to attempting registration to open the course to non-CE STEM majors.

***Special Topics Courses will require approval from the Program Director on a case-by-case basis.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

**Biology Course Descriptions**

BIOL 101  *General Biology I*  Three Credit Hours
Corequisite: BIOL 111
An introductory course in biology designed for non-majors that emphasizes the importance of biology and its impact on human society. Topics include the methods of science, cell structure and function, photosynthesis and cellular respiration, molecular biology, and genetics.
Lecture: three hours.

BIOL 102  *General Biology II*  Three Credit Hours
Corequisite: BIOL 112
A continuation of the introductory course for non-majors that covers topics including evolution, the diversity of life, plant and animal form and function, and principles of ecology. It is recommended that students complete BIOL 101 and 111 before taking BIOL 102 and 112.
Lecture: three hours.

BIOL 105  *Foundations of Biology*  Three Credit Hours
Corequisite: BIOL 115
An introductory course in biology designed for non-majors that emphasizes the importance of biology and its impact on society. Topics include the method of science and an overview of key principles related to cell structure and function, genetics, evolution, organisms, and ecology.

BIOL 111  *General Biology I Laboratory*  One Credit Hour
Corequisite: BIOL 101
Laboratory exercises designed to parallel and support the lecture content of BIOL 101.
Laboratory: two hours.

BIOL 112  *General Biology II Laboratory*  One Credit Hour
Corequisite: BIOL 102
Laboratory exercises designed to parallel and support the lecture content of BIOL 102.
Laboratory: Two hours.
BIOL 115  *Foundations of Biology Laboratory*  One Credit Hour
Corequisite: BIOL 105
Laboratory exercises designed to parallel and support the lecture content of BIOL 105.

BIOL 130  *Introduction to Biology I*  Three Credit Hours
Corequisite: BIOL 131
An introductory course required of all biology majors and education majors whose teaching field is biology; recommended for students in other majors who are interested in medicine or other health professions. Topics include the scientific method and data analysis, cell and molecular biology, and genetics.
Lecture: three hours.

BIOL 131  *Introduction to Biology I Laboratory*  One Credit Hour
Corequisite: BIOL 130
Laboratory exercises designed to parallel the lecture content of BIOL 130.
Laboratory: three hours.

BIOL 140  *Introduction to Biology II*  Three Credit Hours
Prerequisite: BIOL 130 and 131 or a grade of “B” or better in BIOL 101 and 111
Corequisite: BIOL 141
A continuation of the introductory course for biology majors. Topics include evolution, the diversity of life, plant and animal biology, and ecology.
Lecture: three hours.

BIOL 141  *Introduction to Biology II Laboratory*  One Credit Hour
Prerequisite: BIOL 130 and BIOL 131
Corequisite: BIOL 140
Laboratory exercises designed to parallel the lecture content of BIOL 140.
Laboratory: three hours.

BIOL 150  *General Biology for Engineers*  Three Credit Hours
Corequisite: BIOL 151
An introductory course in biology designed for engineering students. Topics include the methods of science, chemistry and cells, evolution, ecology, and microbiology.
Lecture: three hours.

BIOL 151  *General Biology for Engineers Laboratory*  One Credit Hour
Corequisite: BIOL 150
Laboratory exercises designed to parallel and support the lecture content of BIOL 150.
Laboratory: two hours.

BIOL 203  *Introduction to Plant Biology*  Four Credit Hours
Prerequisite: BIOL 102/112 or 140/141
A general survey of the vascular and nonvascular plants. Lecture and laboratory experiences will include a study of the characteristics, life cycles, evolutionary trends, ecological importance, and economic value of each plant group.
Lecture: three hours; laboratory: three hours.
BIOL 205  Cell Biology  
Prerequisite: BIOL 140/141  
Required of all biology majors.  
An introduction to the morphological, biochemical and biophysical properties of cells and their significance in life processes.  
Lecture: three hours; laboratory: three hours.

BIOL 206  Human Genetics  
Prerequisite: BIOL 101  
Does not count toward the biology major  
This course will introduce students to a variety of genetic issues that they will encounter during their lives including: 1) the genetic basis of disease; 2) genetically modified organisms; 3) genetic screening and prenatal diagnosis; 4) cancer; 5) the human genome; 6) genetically modified organisms; and 7) DNA fingerprinting. In addition to gaining a scientific understanding of these issues, the ethical and societal impacts will be discussed.  
Lecture: three hours.

BIOL 207  Bioterrorism  
Prerequisite: BIOL 101  
Does not count toward the biology major  
This course will focus on specific organisms that could be used as bio-weapons, discussing their normal existence, common methods of weaponization of such organisms, their potential effects on a human population, and strategies for protecting populations from bioterrorism attacks (vaccine development). A detailed study of the biological characteristics of these organisms will be the main focus study for this course.  
Lecture: three hours.

BIOL 208  Evolution  
Prerequisite: BIOL 140/141  
Required of all biology majors  
A basic course in the concepts of evolution and population dynamics. The history of evolutionary thought, the processes of organic evolution, and systematics are included.  
Lecture: three hours.

BIOL 209  Environmental Science  
Does not count toward biology major.  
Human impact on our environment has never been so intensive or so far-reaching. Fundamental conditions in global nutrient cycling, biological diversity, atmospheric composition, and climate are changing at an unprecedented rate. This course will use real world case studies to investigate the complex interactions among ecology, geology, chemistry, ethics, policy, and economics.  
Lecture: three hours.

BIOL 210  Cell Biology  
Prerequisites: BIOL 130/131  
An introduction to the morphological, biochemical and biophysical properties of cells and their significance in life processes. Lecture: three hours.  
Lecture: three hours.
BIOL 211  *Cell Biology Lab*  
Prerequisites: BIOL 130/131  
Laboratory exercises designed to illustrate and support the lecture content of BIOL 210.  
Laboratory: three hours

BIOL 217  *Human Anatomy and Physiology I*  
Prerequisite: BIOL 101/111 or BIOL 130/131 and EXSC major or Permission of Biology Department Head.  
Does not count toward biology major.  
An introduction to the integrated structure and function of human organ systems covering cells and tissue; integumentary, skeletal, and nervous systems; and sensory organs.  
Lecture: three hours; laboratory: BIOL 227 is optional.

BIOL 218  *Human Anatomy and Physiology II*  
Prerequisite: BIOL 217  
Does not count toward biology major.  
A continuation of the study of integrated structure and function of the human organ systems covering muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive systems.  
Lecture: three hours; laboratory, BIOL 228 is optional.

BIOL 227  *Human Anatomy and Physiology I Lab*  
Prerequisite: BIOL 101/111  
Corequisites or prerequisites: BIOL 217  
Does not count toward biology major.  
Laboratory exercises designed to illustrate and support lecture content of BIOL 217.  
Laboratory: two hours.

BIOL 228  *Human Anatomy and Physiology II Lab*  
Prerequisite: BIOL 217  
Corequisites or prerequisites: BIOL 218  
Does not count toward biology major.  
Laboratory exercises designed to illustrate and support lecture content of BIOL 218.  
Laboratory: two hours.

BIOL 290  *Microbiology*  
Prerequisite: BIOL 205 or approval of instructor.  
A general study of microorganisms and their importance to humans with special emphasis on their fundamental life processes. Includes a brief introduction to epidemiology and immunology.  
Lecture: three hours; laboratory: three hours.
BIOL 291  History of Biology  Three Credit Hours
Prerequisite: BIOL 140/141 or permission of the instructor.
This course covers major aspects of the development of biological sciences and their relationship to other scientific disciplines. Special attention will be paid to the development and content of theories and to changes in the methods of biological research.
Lecture: three hours.

BIOL 292  Leadership for Environmental Sustainability  Three Credit Hours
This course is designed to explore the role of sustainability in managing natural resources and in guiding informed decision-making by principled leaders in the fields of business, politics, science, and beyond. Sustainability is the use of guiding principles to manage the exploitation of resources, the direction of investments, the orientation of technological development, and institutional change so that they are consistent with future as well as present needs. This course highlights the roles of stewardship and sustainability in the decisions that principled leaders must make. Students will develop an understanding of how to evaluate short-term and long-term resource needs and how to communicate the environmental decision-making process.
Lecture: three hours.

BIOL 301  Invertebrate Zoology  Four Credit Hours
Prerequisite: BIOL 140/141
A general study of the invertebrate animals, including taxonomy, morphology, and ecology.
Lecture: three hours; laboratory: three hours.

BIOL 302  Comparative Vertebrate Anatomy  Four Credit Hours
Prerequisite: BIOL 140/141
A study of the functional anatomy of representative vertebrate animals. Emphasis will be placed on the evolution of the vertebrate body and adaptations in form and function in response to environmental pressures.
Lecture: three hours; laboratory: three hours.

BIOL 308  Genetics  Four Credit Hours
Prerequisite: BIOL 140/141 or permission of the instructor; STAT 160 strongly recommended.
Required of all biology majors.
A study of inheritance, including Mendelian genetics, molecular genetics, changes in chromosome structure and number, cytogenetics, and population genetics.
Lecture: three hours; laboratory: three hours.

BIOL 309  Animal Behavior (Ethology)  Four Credit Hours
Prerequisite: BIOL 140/141 or PSYC 201
This course deals with the description, development, and adaptive nature of behavior in free-living animals. The laboratory will emphasize the description and quantification of behavior patterns. It is highly recommended that students take STAT 160 before enrolling in this course.
Lecture: three hours; laboratory: three hours.
BIOL 314  *The Vascular Flora of South Carolina*  Four Credit Hours
Prerequisite: BIOL 102/112 or BIOL 209 or BIOL 140/141
An introductory study of the native vascular flora of South Carolina, emphasizing the identification and collection of native plants. The student will have practice in use of taxonomic keys and in preparation of specimens.
Lecture: two hours; laboratory: four hours.

BIOL 320  *Intern Research*  Three Credit Hours
Prerequisite: Permission of the department head and supervising instructor.
Students will have the opportunity to participate in ongoing research projects with faculty at The Medical University of South Carolina, National Marine Fisheries Services, and The South Carolina Department of Natural Resources, etc. Students must plan their schedule to allow two free afternoons per week, totaling eight hours per week in the laboratory or field, excluding travel. They are expected to maintain a weekly laboratory notebook and write a research paper detailing their work. Eight hours per week.

BIOL 321  *Undergraduate Research in Biology I*  Three Credit Hours
Prerequisite: Permission of the department head and supervising instructor.
Students will have the opportunity to participate in ongoing research projects with faculty at The Citadel. Students must plan their schedule to allow two free afternoons per week, totaling eight hours per week in the laboratory or field, excluding travel. They are expected to maintain a weekly laboratory notebook and write a research paper detailing their work. This class may be taken for Biology elective credit with permission of the department head. Eight hours per week.

BIOL 322  *Undergraduate Research in Biology II*  Three Credit Hours
Prerequisite: Permission of the department head and supervising instructor, and completion of BIOL 321.
Students will have the opportunity to participate in ongoing research projects with faculty at The Citadel. Students must plan their schedule to allow two free afternoons per week, totaling eight hours per week in the laboratory or field, excluding travel. They are expected to maintain a weekly laboratory notebook and write a research paper detailing their work. This class may be taken for Biology elective credit with permission of the department head. Eight hours per week.

BIOL 323  *Undergraduate Research in Biology III*  Three Credit Hours
Prerequisite: Permission of the department head and supervising instructor, and completion of BIOL 322.
Students will have the opportunity to participate in ongoing research projects with faculty at The Citadel. Students must plan their schedule to allow two free afternoons per week, totaling eight hours per week in the laboratory or field, excluding travel. They are expected to maintain a weekly laboratory notebook and write a research paper detailing their work. This class may be taken for Biology elective credit with permission of the department head. Eight hours per week.
BIOL 324  Undergraduate Research in Biology IV  Three Credit Hours
Prerequisite: Permission of the department head and supervising instructor, and completion of BIOL 323.

Students will have the opportunity to participate in ongoing research projects with faculty at The Citadel. Students must plan their schedule to allow two free afternoons per week, totaling eight hours per week in the laboratory or field, excluding travel. They are expected to maintain a weekly laboratory notebook and write a research paper detailing their work. This class may be taken for Biology elective credit with permission of the department head.

Eight hours per week.

BIOL 330  Methods and Applications in Science  Three Credit Hours
Prerequisites: BIOL 140/141 and CHEM 152/162

A practical experience in the design and implementation of laboratory and field exercises appropriate for secondary level science classes. Applications of science and the scientific method in society are emphasized. Safety in the laboratory and on field experiences as well as science fair preparation is included.
Also listed as CHEM 330.
Lecture: two hours; laboratory: three hours.

BIOL 340  Pathophysiology  Three Credit Hours
Prerequisites: BIOL 130 and BIOL 131

This course will provide students with a broad overview of human diseases and disorders. Common disease and disorder mechanisms will be discussed first. These general concepts will be further investigated later in the course through the study of common pathologies of various organ systems. Case studies will be employed throughout the course to provide students with real-world application of concepts learned.
Lecture: three hours.

BIOL 341  Pharmacology  Three Credit Hours
Prerequisites: BIOL 130 and BIOL 131, CHEM 103 and CHEM 113 and CHEM 104 and CHEM 114 or CHEM 151 and CHEM 161 and CHEM 152 and CHEM 162

The purpose of this course is to introduce students to the applications of pharmacology and the concept of pharmacotherapeutics. At the completion of the course, students will have an understanding of the major pharmacotherapeutic agents as they relate to the ing process and diseases/disorders.
Lecture: three hours.

BIOL 401  Developmental Biology  Four Credit Hours
Prerequisites or corequisites: BIOL 205 and BIOL 308

A study of animal embryology and its molecular control, including: the process of fertilization; the processes of cleavage, gastrulation, and neurulation; the formation of tissues and organs from the three primordial germ layers; the role of secondary induction and of hormones in development; the role of the environment in development; and some of the techniques of molecular biology that are used in the study of developmental processes. The laboratory will include use of model systems to investigate the principles discussed in lecture.
Lecture: three hours; laboratory: three hours.
BIOL 402  *Descriptive Histology*  Four Credit Hours  
Prerequisite: BIOL 140/141  
A detailed study of the chief types of animal tissues and a description of the histology of organs. Laboratory work includes microscopic study of cells, tissues, and organs of animals.  
Lecture: three hours; laboratory: three hours.

BIOL 403  *Mammalian Physiology*  Four Credit Hours  
Prerequisites: BIOL 140/141 and CHEM 208  
A systematic study of the general physiology of mammalian organ systems.  
Lecture: three hours; laboratory: three hours.

BIOL 406  *Ecology*  Four Credit Hours  
Prerequisite: BIOL 140/141  
Required of all biology majors.  
An introduction to the study of biological interrelationships and the effects of the environment on the structure and function of animal and plant populations. Laboratory will emphasize methods and materials of ecological investigations. It is highly recommended that students take Statistics before enrolling in this course.  
Lecture: three hours; laboratory: four hours.

BIOL 407  *Conservation Ecology*  Three Credit Hours  
Prerequisite: BIOL 102/112 or BIOL 209 or BIOL 140/141  
Conservation ecology is an integrated science based primarily on ecology, with important contributions from genetics, evolution, biogeography, sociology, economics, and political science. The course will address definitions, origins, and patterns of biological diversity, explore why the maintenance of biodiversity in native and human dominated ecosystems is fundamentally important to the continued well-being of humans and other species, and examine the context and causes of extinction and strategies for preventing or ameliorating the loss of biodiversity.  
Lecture: three hours

BIOL 408  *Ornithology*  Four Credit Hours  
Prerequisite: BIOL 102/112 or BIOL 209 or BIOL 140/141  
A study of the structure, function, and ecology of birds. Field trips and bird specimens will give students a working knowledge of birds common to South Carolina.  
Lecture: three hours; laboratory: three hours.

BIOL 409  *Marine Biology*  Four Credit Hours  
Prerequisite: BIOL 140/141  
The lectures cover major ecological factors and the fundamentals of oceanography. Laboratory work stresses familiarities with species, taxonomic methods, sampling procedures, experimental design, use of equipment, and data handling.  
Lecture: three hours; laboratory: three hours.
The Citadel

The Citadel

Department of Biology

BIOL 410  

**Vertebrate Natural History**  
Four Credit Hours

Prerequisite: BIOL 140/141

An introduction to the classification, ecology, evolution and distribution of the vertebrates. Laboratory with emphasis on identification and field study techniques, especially with respect to the vertebrates of South Carolina.

Lecture: three hours; laboratory: three hours.

BIOL 411  

**Senior Seminar**  
One Credit Hour

Required of all biology majors. Open only to seniors.

A group study of current topics of biological interest.

Lecture: one hour.

BIOL 412  

**Special Topics in Biology**  
Four Credit Hours

Prerequisite: permission of the instructor.

A course designed for the study of specialized topics in modern biology.

Lecture: variable; laboratory: variable

BIOL 414  

**Environmental Physiology**  
Four Credit Hours

Prerequisite: BIOL 205

This course will cover the physiological adaptations of organisms to physical and chemical parameters of the environment. It includes molecular mechanisms which help organisms adapt to environmental factors.

Lecture: three hours; laboratory: three hours.

BIOL 419  

**Economic Botany**  
Three Credit Hours

Prerequisite: BIOL 102/112 or BIOL 209 or BIOL 140/141

An introductory course in economic botany devoted to the consideration of plants which are useful or harmful to humans; their origins and history, botanical relationships, chemical constituents which make them economically important, and their roles in prehistoric and modern cultures and civilizations.

Lecture: three hours.

BIOL 421  

**Toxicology**  
Four Credit Hours

Prerequisites: BIOL 102 or 140 and CHEM 104 or 152, or BIOL 218

An overview of the basic science of poisons, including the disposition of chemicals in the body, the role of metabolism in enhancing or reducing their toxicity, mechanisms of toxicity, and the effects of toxicants on major organ systems.

Lecture: three hours; laboratory: three hours.
BIOL 424  *Molecular Genetics*  Four Credit Hours
Prerequisites: BIOL 308, CHEM 208; CHEM 409 Strongly Suggested; BIOL 290 suggested.

Coordinated lecture/laboratory class covering classical molecular and cellular biochemistry as well as modern molecular genetics. Study of the manner in which genetic information is carried in DNA and how DNA directs the synthesis of proteins in bacterial and eukaryotic cells and their associated viruses. Specific topics to be covered include mechanisms governing gene expression, metabolic control system, gene therapy, oncogenesis, molecular genetics of genetic diversity, molecular basis of human diseases, and a review of known disease-causing genes such as the cystic fibrosis gene, Huntington’s chorea gene, and the Duchenne Muscular Dystrophy gene.

Lecture: three hours; laboratory: three hours.

BIOL 425  *Tropical Rainforest and Reef Ecology*  Four Credit Hours

The objectives of this experiential course are to survey biodiversity and provide understanding of ecological principles in tropical habitats through physical involvement with the environment. Two co-instructors will lead students on a 10-12 day excursion in forest and reef habitats of the Neotropics, providing natural history instruction and interpretation. Participants will have the opportunity to immerse themselves in the subject by walking forest paths, swimming forest streams, spelunking caves, paddling mangrove swamps, combing beaches, and snorkeling coral reefs. A species list of plants and animals will be assembled for each habitat and readings from the scientific literature, appropriate to the region, will be assigned for analysis and discussion.

BIOL 426  *Freshwater Biology*  Four Credit Hours
Prerequisite: BIOL 140/141

The study of freshwater organisms and their environment. Instruction will cover the biological diversity, ecological and physiological adaptations, and the physical setting of freshwater systems. Local systems of interest include large coastal rivers and lakes, upper portions of estuaries and old rice fields.

BIOL 427  *Immunology*  Three Credit Hours
Prerequisites or corequisites: BIOL 205 and BIOL 308

A description of the immune system including the cells and organs involved in immunity; antigen-antibody reactions; immunoglobulin structure, function; organization and expression of immunoglobulin genes; the major histocompatibility complex; immune regulation and tolerance. These basic concepts will be applied to understanding the role of the immune system in vaccinations; infectious disease; organ transplantation; autoimmune disease; immunodeficiency diseases; AIDS and cancer.

Lecture: three hours.

BIOL 429  *Literature Seminar*  One Credit Hour
Prerequisite: BIOL 140/141

A current topics course that involves discussions of relevant journal articles and related materials.
# BIOLOGY MAJOR

## First Semester

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tr>
<td>First Year Experience</td>
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<td>Freshman Linked Writing Intensive</td>
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## Sophomore Year

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<td>(211 may be taken either semester)</td>
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<td>Evolution</td>
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<td>Organic Chemistry I</td>
<td>CHEM 217</td>
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<td>Organic Chemistry I Laboratory</td>
<td>MATH 106</td>
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<td>General Elective</td>
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## Junior Year

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<td>Leadership in Organizations</td>
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<td>Strand English</td>
<td>ENGS 30x</td>
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<td>Strand Natural Science</td>
<td>NTSS 30x</td>
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<td>Genetics</td>
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<tr>
<td>College Physics I</td>
<td>PHYS 203</td>
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<td>(3,0)</td>
</tr>
<tr>
<td>College Physics I Laboratory</td>
<td>PHYS 253</td>
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## Senior Year

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<tr>
<th>Course Title</th>
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<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
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<tr>
<td>Biology Senior Seminar</td>
<td>BIOL 411</td>
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<td>(1,0)</td>
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<td>BIOL 3(4)</td>
<td>(var)</td>
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<tr>
<td>Biology Elective**</td>
<td>BIOL 3(4)</td>
<td>(var)</td>
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<tr>
<td>Strand Elective</td>
<td>ELES 30x</td>
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<td>General Elective</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order. Var = varies according to course.
**Biology electives must include at least one course from each of the following four areas. Cell and Molecular Biology: BIOL 290, 340, 341, 401, 402, 424, 427; Ecology and Field Biology: BIOL 314, 407, 408, 409, 425, 426; Organismal Biology: BIOL 203, 301, 302, 309, 410, 419, 421; Physiological Biology: BIOL 403 and 414.
# BIOLOGY MAJOR
## Second Semester

### FRESHMAN YEAR
- **Introduction to Biology I** ........................................... BIOL 130 3  (3,0)*
- **Introduction to Biology I Laboratory** .......................... BIOL 131 1  (0,3)
- **General Chemistry II** .................................................. CHEM 152 3  (3,0)
- **General Chemistry II Laboratory** .................................. CHEM 162 1  (0,2)
- **Statistical Methods** .................................................... STAT 160 3  (3,0)
- **Modern Language** ....................................................... 3  (3,0)
- **General Elective** ....................................................... 3  (3,0)
- **1st Year Basic ROTC** .................................................. 102 1  (1,0)

### SOPHOMORE YEAR
- **Cell Biology** ........................................................... BIOL 210 3  (3,0)
- **Cell Biology Laboratory** ............................................... BIOL 211 1  (0,3)
- **Organic Chemistry II** .................................................. CHEM 208 3  (3,0)
- **Organic Chemistry II Laboratory** .................................. CHEM 218 1  (0,3)
- **Applied Calculus II** .................................................. MATH 107 3  (3,0)
- **Strand History** ......................................................... HISS 30x 3  (3,0)
- **Technical Writing and Communication** ......................... COMM 260 3  (3,0)
- **2nd Year Basic ROTC** ..................................................

### JUNIOR YEAR
- **Strand Social Science** ............................................. SCSS 30x 3  (3,0)
- **Ecology** ................................................................. BIOL 406 4  (3,4)
- **Biology Elective** ........................................................ BIOL 3(4) (var)
- **College Physics II** .................................................. PHYS 204 3  (3,0)
- **College Physics II Laboratory** .................................... PHYS 254 1  (0,3)
- **General Elective** ....................................................... 3  (3,0)
- **Required Physical Education** ..................................... RPED 0  (0,1)
- **1st Year Advanced ROTC** .............................................

### SENIOR YEAR
- **General Education Capstone** ..................................... GEND 422 3  (3,0)
- **Biology Elective** ........................................................ BIOL 3(4) (var)
- **General Elective** ....................................................... 3  (3,0)
- **Required Physical Education** ..................................... RPED 0  (0,1)
- **2nd Year Advanced ROTC** .............................................

**REQUIRED FOR GRADUATION:** 131-137 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# BIOLOGY MAJOR

## Teaching Specialization in Biology & Comprehensive/Broad Field Science

### First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
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<tr>
<td>Freshman Seminar</td>
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<td>Physical Fittness, Resiliency, and Wellness</td>
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<tr>
<td>Introduction to Biology II</td>
<td>BIOL 140</td>
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<tr>
<td>Introduction to Biology II Laboratory</td>
<td>BIOL 141</td>
<td>1 (0,3)</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td>CHEM 151</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Chemistry I Laboratory</td>
<td>CHEM 161</td>
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<tr>
<td>Education in Modern Society</td>
<td>EDUC 101</td>
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### First Year Basic ROTC

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### Sophomore Year

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<tr>
<td>Sophomore Seminar in Principled Leadership</td>
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<td>Organic Chemistry I</td>
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<td>Organic Chemistry I Laboratory</td>
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<td>Applied Calculus I</td>
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<td>Adolescent Development</td>
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<td>Modern Language</td>
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<tr>
<td>Biology Elective**</td>
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### Sophomore Basic ROTC

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### Junior Year

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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
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<tr>
<td>Genetics</td>
<td>BIOL 308</td>
<td>4 (3,3)</td>
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<td>PHYS 203</td>
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<td>College Physics I Laboratory</td>
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<td>Learners with Exceptionalities</td>
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<tr>
<td>Strand English</td>
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<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
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### Junior Basic ROTC

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### Senior Year

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<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
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<tr>
<td>Biology Elective**</td>
<td>BIOL 411</td>
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<td>BIOL 3(4) (var)</td>
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<tr>
<td>Strand Elective</td>
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<tr>
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<tr>
<td>Special Methods in Teaching</td>
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### Senior Basic ROTC

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*Represents semester credit, lecture, and laboratory hours, in that order. Var = varies according to course.

**Biology electives must include at least one course from each of the following four areas. Animal Physiology Area: BIOL 403, BIOL 414; Botany Area: BIOL 203, BIOL 314; Zoology Area: BIOL 301, BIOL 302, BIOL 408, BIOL 410.
## BIOLOGY MAJOR

**Teaching Specialization in Biology & Comprehensive Broad Field Science**

### Second Semester

### FRESHMAN YEAR

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<td>Introduction to Biology I</td>
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<tr>
<td>General Chemistry II</td>
<td>CHEM</td>
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<tr>
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<td>Statistical Methods</td>
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<td>Year Basic ROTC</td>
<td></td>
<td>1</td>
<td>(1,0)</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Biology</td>
<td>BIOL</td>
<td>4</td>
<td>(3,2)</td>
</tr>
<tr>
<td>Organic Chemistry II</td>
<td>CHEM</td>
<td>3</td>
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</tr>
<tr>
<td>Organic Chemistry II Laboratory</td>
<td>CHEM</td>
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<tr>
<td>Applied Calculus II</td>
<td>MATH</td>
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<tr>
<td>Foundations in Reading</td>
<td>EDUC</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Strand History</td>
<td>HISS</td>
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<tr>
<td>2nd Year Basic ROTC</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>Ecology</td>
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<tr>
<td>Biology Elective**</td>
<td>BIOL</td>
<td>3</td>
<td>(var)</td>
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<td>College Physics II</td>
<td>PHYS</td>
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<td>College Physics II Laboratory</td>
<td>PHYS</td>
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<td>(0,3)</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS</td>
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<tr>
<td>Methods &amp; Materials-Middle &amp; High School</td>
<td>EDUC</td>
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<td>(3,0)</td>
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<td>1st Year Advanced ROTC</td>
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### SENIOR YEAR

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<th>Hours</th>
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<tr>
<td>Internship in Teaching</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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**REQUIRED FOR GRADUATION:** 146-149 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Chemistry

Department Head: Granger
Professors: Mabrouk, Zuraw
Associate Professors: Adair, Bevsek
Assistant Professors: Dorko, Le-Vasicek, Moyer

The course of study for students majoring in chemistry is designed to prepare them to enroll as graduate students in full standing at leading universities; to provide the foundation for pursuing careers in medicine, dentistry, and other professions; to teach chemistry in public and private secondary schools; and to fill positions as chemists in industrial laboratories. The curricula embody training in the five fundamental subdivisions of the science: biochemistry, inorganic, organic, analytical, and physical chemistry.

The department occupies Byrd Hall. Within its 52,000 square feet, this facility houses a lecture theater, modern class rooms, laboratories, computer laboratory, and conveniently located stock, preparation, and balance rooms.

B.S. in Chemistry

The B.S. in Chemistry degree is intended for those students who plan to enter graduate, medical, dental, veterinary, or other professional schools; military service; and positions in industry. A specific curriculum will be developed in consultation with the student’s academic advisor to fit each student’s specific career goals.

All undergraduate courses taken at The Citadel with a subject prefix of CHEM will count towards the major GPA.

Requirements of the degree are:

CHEM 153/163 General Chemistry for Majors I/General Chemistry Laboratory for Majors I
CHEM 154/164 General Chemistry for Majors II/General Chemistry Laboratory for Majors II
CHEM 207/217 Organic Chemistry I/Organic Chemistry Laboratory I
CHEM 208/218 Organic Chemistry II/Organic Chemistry Laboratory II
CHEM 300 Quantitative Analysis
CHEM 302 Instrumental Analysis
CHEM 305/315 Physical Chemistry I/Physical Chemistry Laboratory I
CHEM 306/316 Physical Chemistry II/Physical Chemistry Laboratory II
CHEM 308 Introduction to Chemical Research
CHEM 401 Inorganic Chemistry I
CHEM 409 Biochemistry I
CHEM 419 Senior Research I
CHEM 420 Senior Research II

B.S. in Chemistry majors must also take the following supporting courses:
MATH 131 Analytical Geometry and Calculus I
MATH 132 Analytical Geometry and Calculus II
PHYS 221/271 Physics with Calculus I/Laboratory for Physics with Calculus I
PHYS 222/272 Physics with Calculus II/Laboratory for Physics with Calculus II

Majors in the B.S. in Chemistry program must also take an approved elective from the following selection: BIOL 290, 308, 421, 424, 427; CHEM 402, 404, 410; CSCI 205; MATH 303, 335, 343, 344, 381, 403, 411, 422, 470; PHYS 301, 307, 308, 315, 320, 403, 405, 409, 410.

In addition, majors in B.S. in Chemistry must take another approved elective from the following selection: CHEM 402, 404, 410.

**B.S. in Chemistry (American Chemical Society Accredited)**

Students who wish to pursue research-related careers (chemical, medical, industrial) should consider taking the courses to complete the American Chemical Society approved program. Students completing these additional requirements are awarded a certificate by the American Chemical Society documenting their status as professional chemists and are frequently given preferential treatment as candidates for professional positions. In order to qualify for this distinction, students must complete all the requirements of the B.S. in Chemistry program and these additional courses:

MATH 234 Applied Engineering Mathematics I
CHEM 460 Biochemistry Laboratory

A chapter of the Student Members of the American Chemical Society is active at The Citadel.

**B.S. in Chemistry - Biochemistry Specialization**

Students who have a particular interest in biochemistry or those who intend to enter medical, dental, veterinary, or similar professional schools are encouraged to major in the B.S. in Chemistry - Biochemistry Specialization program. All undergraduate courses taken at The Citadel with a subject prefix of CHEM will count towards the major GPA.

Requirements for this degree are the same as the requirements for the B.S. in Chemistry program with the following differences:

CHEM 315 is not required.
CHEM 410 and CHEM 460 are required.

Two approved electives are not required; however, one approved biology elective must be chosen from the following: BIOL 290, 308, 421, 424, or 427.

Students in this program may also be awarded an ACS accredited degree by taking the following additional courses:

CHEM 315 Physical Chemistry Laboratory I
B.A. in Chemistry

The curriculum for the B.A. in Chemistry provides great flexibility in choosing electives which permit the design of a program to fit the student’s individual aspirations. This degree is intended for those students who wish to combine a technical background with a liberal arts education, teach high school chemistry, complete a double major, or graduate early.

All undergraduate courses taken at The Citadel with a subject prefix of CHEM will count towards the major GPA.

Requirements for the degree are:

CHEM 153/163 General Chemistry for Majors I/General Chemistry Laboratory for Majors I
CHEM 154/164 General Chemistry for Majors II/General Chemistry Laboratory for Majors II
CHEM 207/217 Organic Chemistry I/Organic Chemistry Laboratory I
CHEM 208/218 Organic Chemistry II/Organic Chemistry Laboratory II
CHEM 308 Introduction to Chemical Research
CHEM 419 Senior Research I
CHEM 420 Senior Research II

One sequence from one of the following areas:

Analytical Chemistry: CHEM 300, CHEM 302
Physical Chemistry: CHEM 305/315, CHEM 306/316
Biochemistry: CHEM 409, CHEM 410, CHEM 460

Students must also take one course from each of the remaining three chemical areas, e.g., if students take the full analytical chemistry sequence, then they must take one course from the physical chemistry, inorganic chemistry, and biochemistry sequences.

B.A. in Chemistry majors must also take the following supporting courses:

MATH 106 Applied Calculus I
MATH 107 Applied Calculus II
PHYS 203/253 College Physics I/Laboratory for College Physics I
PHYS 204/254 College Physics II/Laboratory for College Physics II

Premedical Program

Students who plan to enter medical school or allied professional schools such as dental or veterinary school should consider either of the two B.S. in Chemistry programs. The non-ACS curriculum will provide a solid foundation for medical, dental or veterinary school. Students who plan to enter medical school upon completion of their baccalaureate degrees should acquaint themselves with requirements of the medical schools of their choice and plan their programs accordingly. An extremely worthwhile reference to the entrance requirements for all medical schools in the United States and Canada is Medical School
Admission Requirements, published each year by the Association of American Medical Colleges, http://www.aamc.org

Minor in Chemistry

Objectives: The minor in chemistry will provide students with a stronger background in chemistry than they would obtain from the requirements in the core curriculum. It is designed to acquaint students with the more advanced theories and techniques that are illustrated in the major subfields of chemistry.

Knowledge and/or Skills to be Achieved: In general, the student completing the minor will have a more in-depth foundation in chemical bonding, physical properties and synthesis of compounds, chemical thermodynamics and kinetics, chemical and instrumental analyses, properties of biomolecules, and the design of polymers. More specifically, by the choice of advanced courses, the student may gain greater insight with regards to one or more of these general areas to meet specific career goals. Additionally, because the department places considerable emphasis on oral and written presentations, the student will gain considerable experience in interpreting and presenting chemical data in a professional manner.

This minor is not approved for students majoring in Chemistry.

Structure of the minor:

1. Required Courses: (8 Credit Hours)
   - CHEM 151 General Chemistry I*
   - CHEM 161 General Chemistry Laboratory I*
   - CHEM 152 General Chemistry II*
   - CHEM 162 General Chemistry Laboratory II*
   - CHEM 207 Organic Chemistry I
   - CHEM 217 Organic Chemistry Laboratory I
   - CHEM 208 Organic Chemistry II
   - CHEM 218 Organic Chemistry Laboratory II

*These four courses meet the requirements for the core curriculum, and their hours are not counted toward the total for the Minor in Chemistry. Also note that CHEM 103/113 and CHEM 104/114 do not meet the requirements for the Minor in Chemistry. Biology majors may count CHEM 207/217 and CHEM 208/218 towards the minor.

2. Electives: (7 Credit Hours)
   A. One of the four sequential upper-level offerings (300 or above)
      - CHEM 305/306 Physical Chemistry I & II
      - CHEM 300/302 Quantitative Analysis/Instrumental Analysis
      - CHEM 401/402 Inorganic Chemistry I & II
      - CHEM 409/410 Biochemistry I & II
   B. If the Physical Chemistry, Inorganic Chemistry, or Biochemistry sequence is chosen, at least one upper-level laboratory course (CHEM 315, 316, or 460) must also be completed.

The additional courses must be approved in advance by the Head of the Department of Chemistry.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.
**Minor in Molecular Biology and Biochemistry**

The Departments of Biology and Chemistry offer a joint minor in Molecular Biology and Biochemistry. This minor will be beneficial to students interested in careers in medicine, dentistry, and other health science fields as well as those who wish to pursue careers in the chemical and biochemical industry. Active learning exercises, use of scientific literature, computer modeling, inquiry-based laboratories, and research are important components of the courses in the sequence. Requirements for the minor vary slightly depending on the student’s major. The following courses are prerequisites for the minor: BIOL 130/131 and 140/141; CHEM 151/161, 152/162, 207/217, and 208/218.

**Requirements for Students Majoring in Biology**

- BIOL 424 Molecular Genetics
- BIOL or CHEM 429 Literature Seminar
- CHEM 409 Biochemistry I
- CHEM 410 Biochemistry II
- CHEM 460 Biochemistry Laboratory
- BIOL 290 Microbiology
- or
- CHEM 300 Quantitative Analysis

**Requirements for Students Majoring in Chemistry**

- BIOL 308 Genetics
- BIOL 424 Molecular Genetics
- BIOL or CHEM 429 Literature Seminar
- CHEM 409 Biochemistry I
- CHEM 410 Biochemistry II
- CHEM 460 Biochemistry Laboratory

**Requirements for All Other Majors**

- BIOL 308 Genetics
- BIOL 424 Molecular Genetics
- BIOL or CHEM 429 Literature Seminar
- CHEM 409 Biochemistry I
- CHEM 410 Biochemistry II
- CHEM 460 Biochemistry Laboratory

*Total Credit Hours Required:* 16 credit hours, 9 of which must be completed at The Citadel
Chemistry Course Descriptions

CHEM 103  Introduction to Chemistry I  Three Credit Hours
Corequisite or prerequisite: CHEM 113
For non-science majors only.
The first semester of a course designed for students who are not science and engineering majors. The course will cover the fundamentals of chemistry including electronic structure of the atoms, bonding, basic chemical calculations, gases, and various types of reactions. Mathematical emphasis will be less rigorous than in CHEM 151. Chemical processes of products used in everyday life will be stressed.
Lecture: three hours.

CHEM 104  Introduction to Chemistry II  Three Credit Hours
Prerequisites: CHEM 103 and CHEM 113 or CHEM 151 and CHEM 161
Corequisite or prerequisite: CHEM 114
For non-science majors only.
The concluding semester of a course designed for students who are not science and engineering majors. Among the topics to be covered will be the relationship of chemistry to the environment, to the human body, to energy production, and to product manufacturing. Emphasis will be placed on making students more informed consumers as they choose and use everyday products.
Lecture: three hours.

CHEM 105  Foundations in Chemistry: Health Perspectives  Three Credit Hours
Bugs, pesticides, drugs (both legal and illegal), and of course food and drink are consumed by humans on a regular basis. Chemistry is a large part of food production, transportation, storage, and consumption. Drugs can be medicines or toxins and the side effects for one drug can be the wanted effect for another. This course will allow students to explore various aspects of how chemistry affects their health and wellness. This course fulfills the first year science requirement in the General Education program when taken with the laboratory component.

CHEM 106  Foundations in Chemistry: Forensic Perspectives  Three Credit Hours
This course will focus on introductory chemistry principles for non-science majors using a forensic science theme. The fundamentals of chemistry like physical and chemical properties, bonding, equilibrium, and thermodynamics will be studied with applications in forensics integrated throughout the course. Legal cases will be included to highlight the forensic applications. This course fulfills the first year science requirement in the General Education program when taken with the laboratory component.

CHEM 113  Introduction to Chemistry I Laboratory  One Credit Hour
Prerequisite or corequisite: CHEM 103
Required of all students selecting CHEM 103.
Student-conducted laboratory procedures and experiments designed to parallel as closely as possible and to enhance the material covered in CHEM 103. Emphasis will be placed on basic laboratory techniques. Demonstrations will be used to illustrate important chemical concepts.
Laboratory: two hours.
CHEM 114  *Introduction to Chemistry II Laboratory*  
One Credit Hour

Prerequisites: CHEM 103 and CHEM 113

Corequisite or Prerequisite: CHEM 104

Required of all students selecting CHEM 104.

A continuation of CHEM 113. Experiments and demonstrations will parallel, as closely as possible, and enhance the material covered in CHEM 104. Preparation and analysis of some interesting common products will be conducted.

Laboratory: two hours.

CHEM 115  *Foundations in Chemistry: Health Perspectives Laboratory*  
One Credit Hour

Health Perspectives Laboratory provides students experiments to support and enhance topics discussed in CHEM 105. Students will develop skills in recording data, making observations, and utilizing the data and observations to draw logical conclusions. This course fulfills the first year science requirement in the General Education program when taken with the lecture component.

CHEM 116  *Foundations in Chemistry: Forensic Perspectives Laboratory*  
One Credit Hour

Forensic Perspectives Laboratory will focus on introductory chemistry principles for non-science major students using a forensic science theme. Fundamentals of chemistry like physical and chemical properties, bonding, stoichiometry, and thermochemistry will be studied with applications in forensics. This course fulfills the first year science requirement in the General Education program when taken with the lecture component.

CHEM 140  *General Chemistry for Engineers*  
Three Credit Hours

Prerequisite or corequisite: CHEM 141

Required of freshmen majoring in electrical or mechanical engineering.

This course is designed to introduce the engineering student to some of the fundamental concepts of chemistry. Topics to be covered include: stoichiometry, atomic structure, chemical bonding, properties and reactions of inorganic compounds, properties of gases, periodic trends, Lewis dot structures, molecular geometries, intermolecular forces, phase diagrams, solids, and polymers.

Lecture: three hours.

CHEM 141  *General Chemistry for Engineers Laboratory*  
One Credit Hour

Prerequisite or corequisite: CHEM 140

Required of all students selecting CHEM 140.

The first hour of this course will serve as a discussion section meant to reinforce chemical concepts being discussed in CHEM 140. The last two hours will be an introduction to laboratory techniques and experiments designed to accompany the topics covered in CHEM 140.

Lecture: one hour; laboratory: two hours.
CHEM 151  General Chemistry I  Three Credit Hours
Corequisite or prerequisite: CHEM 161
Required of all freshmen majoring in the sciences and engineering; the chemistry option for B.S. in Mathematics or Computer Science; elective to others.
Problem-solving techniques and essential concepts, including structure and properties, reactions, stoichiometry, states of matter, thermochemistry, and bonding. Calculators with logarithmic capability are required.
Lecture: three hours.

CHEM 152  General Chemistry II  Three Credit Hours
Prerequisites: CHEM 151 and CHEM 161
Corequisite or prerequisite: CHEM 162
Required of all students majoring in the sciences; the chemistry option for B.S. in Mathematics or Computer Science; elective to others.
Continuation of CHEM 151. Emphasis includes solutions, kinetics, equilibrium, acids and bases, solubility, redox, and an introduction to organic chemistry.
Lecture: three hours.

CHEM 153  General Chemistry I for Chemistry Majors  Three Credit Hours
Prerequisite or corequisite: CHEM 163
Required of all freshmen majoring in chemistry. Chemistry majors must have a grade of C or higher.
Students will learn about stoichiometry, atomic structure, chemical bonding, properties and reactions of inorganic compounds, periodic trends, thermochemistry, properties of gases, Lewis dot structures, molecular geometries, and molecular orbital theory. Introduction to research methods and problem solving techniques will be incorporated throughout the semester.
Lecture: three hours.

CHEM 154  General Chemistry II for Chemistry Majors  Three Credit Hours
Prerequisites: CHEM 153 and CHEM 163 or permission of department head.
Corequisite: CHEM 164
Required of all freshmen majoring in chemistry. Chemistry majors must have a grade of C or higher.
A continuation of CHEM 153 in which students continue to explore theory and application of chemical concepts including solubility and solutions, kinetics, equilibrium, acid/base chemistries, oxidation/reduction reactions, nuclear chemistry, and an introduction to organic chemistry. Introduction to research methods and problem solving techniques will continue to be discussed and practiced.
Lecture: three hours.

CHEM 161  General Chemistry I Laboratory  One Credit Hour
Prerequisite or corequisite: CHEM 151
Required of all students selecting CHEM 151.
Introduction to laboratory techniques and experiments designed to accompany the topics covered in CHEM 151.
Laboratory: two hours.
CHEM 162  General Chemistry II Laboratory  One Credit Hour
Prerequisites: CHEM 151 and CHEM 161
Corequisite or prerequisite: CHEM 152
Required of all students selecting CHEM 152.
A continuation of CHEM 161; experiments include an introduction to qualitative analysis, quantitative techniques, and selected instrumental methods.
Laboratory: two hours.

CHEM 163  General Chemistry I Laboratory for Chemistry Majors  One Credit Hour
Prerequisite or corequisite: CHEM 153
The first hour of this course will serve as a discussion section meant to reinforce chemical concepts being discussed in CHEM 153. The last two hours will be an introduction to laboratory techniques and experiments designed to accompany the topics covered in CHEM 153.
Lecture: one hour; laboratory: two hours.

CHEM 164  General Chemistry II Laboratory for Chemistry Majors  One Credit Hour
Prerequisites: CHEM 151 and CHEM 161
Corequisite or prerequisite: CHEM 152
Required of all students majoring in chemistry.
A continuation of CHEM 161; experiments include an introduction to qualitative analysis, quantitative techniques, and selected instrumental methods. Research skills are introduced and utilized in a project.
Lecture: one hour; laboratory: two hours.

CHEM 207  Organic Chemistry I  Three Credit Hours
Prerequisites: CHEM 152/162 or CHEM 154/164; Chemistry majors must have a grade of C or higher.
Required of all sophomores majoring in chemistry.
A study of the aliphatic hydrocarbons, their preparations and reactions, with emphasis on reaction mechanisms and transformations.
Lecture: three hours.

CHEM 208  Organic Chemistry II  Three Credit Hours
Prerequisites: CHEM 207 and CHEM 217
Corequisite or prerequisite: CHEM 218
A study of aromatic compounds and the various functional classes of compounds. Emphasis will be placed on reactions, reaction mechanisms, and transformations. Important biomolecules will be covered briefly.
Lecture: three hours.
CHEM 217  Organic Chemistry I Laboratory  One Credit Hour
Corequisite or prerequisite: CHEM 207
A course which emphasizes the development of skill in the use of basic laboratory techniques through the completion of a series of experiments involving various types of reactions such as substitution, elimination, and addition reactions with an introduction to modern instrumentation such as the IR spectrometer, gas chromatograph, and NMR spectrometer.
Laboratory: three hours.

CHEM 218  Organic Chemistry II Laboratory  One Credit Hour
Prerequisites: CHEM 207 and CHEM 217
Corequisite or prerequisite: CHEM 208
A continuation of CHEM 217 with the emphasis on the synthesis, reactions, and identification of the various classes of organic compounds.
Laboratory: three hours.

CHEM 300  Quantitative Analysis  Four Credit Hours
Prerequisites: CHEM 152/162 or CHEM 154/164 and MATH 107 or the equivalent or permission of the instructor.
Required of all juniors pursuing the B.S. in chemistry; elective to others.
This course has as a primary focus the chemical principles involved with classical gravimetric and volumetric analysis; however, modern methods of analysis including colorimetry and potentiometry are introduced.
Lecture and discussion: three hours; laboratory: three hours.

CHEM 302  Instrumental Methods  Four Credit Hours
Prerequisites: CHEM 300 or permission of the instructor.
Required of all juniors pursuing the B.S. in chemistry; elective to others.
Modern instrumental methods of analysis are discussed, with emphasis on the physical or chemical principles involved in the method, design or analytical instruments, and treatment of analytical data. Laboratory work provides practice in the three major areas of instrument analysis—chromatography, electrochemistry, and spectroscopy.
Lecture: two hours; laboratory: four hours.

CHEM 305 and  Physical Chemistry I and II  Three Credit Hours
CHEM 306  Each Semester
Prerequisites: MATH 132 or MATH 107; PHYS 204/254 or PHYS 222/272; CHEM 152/162 or CHEM 154/164 or permission of department head.
Corequisite for CHEM 305: CHEM 315 (except biochemistry specialty majors)
Corequisite for CHEM 306: CHEM 316
CHEM 305 provides a detailed study of the postulates of quantum mechanics, simple quantum mechanical systems, approximation methods, many-electron systems, bonding, and spectroscopy. CHEM 306 provides a detailed study of statistical mechanics, the kinetic theory of gases, the laws of thermodynamics, equilibrium, and kinetics and mechanics of reactions.
Lecture: three hours.
CHEM 308  Introduction to Chemical Research  Two Credit Hours
Prerequisite: CHEM 208
Required of all chemistry majors; elective to others.
This course is an introduction to the literature of chemistry and the basics of developing a research project. Students will be introduced to both computer and print-based literature searches and will apply these skills as they research their thesis topics under the direction of a faculty research advisor.
Lecture and discussion: two hours.

CHEM 309  Current Topics in Chemistry  Three Credit Hours
Prerequisites: A two-semester sequence of Introduction to Chemistry, CHEM 103/104 or General Chemistry, CHEM 151/152.
General elective only.
Interesting current topics will be presented at a level appropriate for students with a general chemistry background. The topics will be determined by student interest and faculty availability.
Lecture: three hours.

CHEM 315 and  Physical Chemistry I & II Laboratory  One Credit Hour
CHEM 316  Each Semester
Prerequisite: MATH 107 or MATH 132
Corequisites or prerequisites: CHEM 305 and CHEM 306
Required of all chemistry majors; CHEM 316 is required for biochemistry specialty majors; elective to others.
The first semester course will be devoted to attaining skills in the evaluation, analysis, and presentation of experimental data. Topics covered will include graphing techniques, error analysis, extraction of useful quantities from raw data, and the use of spreadsheets. Experiments will be performed on topics covered in CHEM 305. The second semester work will be a hands-on study of experimental physical chemistry on topics covered in CHEM 306, emphasizing the acquisition of data that can be analyzed using the skills learned in the first semester. Laboratory: three hours.

CHEM 319  Applied Current Topics in Chemistry  Three Credit Hours
Prerequisites: A two-semester sequence of Introduction to Chemistry, CHEM 103/104 or General Chemistry, CHEM 151/152.
General elective for all majors.
Interesting topics will be presented at a level appropriate for students with a general chemistry background. This course will utilize a laboratory component.

CHEM 320  Polymer Chemistry  Three Credit Hours
Prerequisites: CHEM 208 and CHEM 305 or approval of the instructor
A general overview of polymer chemistry which includes mechanisms of polymerization, reactions of monomers, molecular weight distributions and limitations, polymer morphology and rheology, structure elucidation, applications, and industrial processing.
Lecture: three hours.
CHEM 330  *Methods and Applications of Science*  Three Credit Hours
Prerequisites: CHEM 152/162 or CHEM 154/164
A practical experience in the design and implementation of laboratory and field exercises appropriate for secondary level science classes. Applications of science and the scientific method in society are emphasized. Safety in the laboratory and on field experiences as well as science fair preparation are included. This course satisfies the ROTC fulfillment requirement for juniors and seniors.
Lecture: two hours; laboratory: three hours

CHEM 331  *Academic Leadership in STEM*  Three Credit Hours
Academic Leadership in STEM will focus on developing students to be effective peer mentors who will assist general chemistry students with concepts and problem solving in a small group environment. This course will foster the development of effective leadership skills (e.g., communication and team-building) in the peer mentors. Additionally, through leading general chemistry students in small group problem solving sessions, the peer mentors will deepen their own understanding of chemistry concepts. This course satisfies the ROTC fulfillment requirement.
Lecture: three hours

CHEM 401  *Inorganic Chemistry I*  Three Credit Hours
Prerequisites: CHEM 208 or approval of instructor
Required of all chemistry majors.
An introduction to the systematic chemistry of the elements and the structures and reactions of their compounds. Topics covered include atomic and bonding theories, acid-base theories, symmetry and spectroscopy, and chemistry of the main group elements.
Lecture: three hours.

CHEM 402  *Inorganic Chemistry II*  Three Credit Hours
Prerequisite: CHEM 401
The chemistry of the transition metals, including bonding theories, coordination compounds, organometallic chemistry, catalysis and bioinorganic chemistry.
Lecture: three hours.

CHEM 403  *Special Topics in Chemistry*  Three Credit Hours
Prerequisites: CHEM 208 or permission of the instructor.
An in-depth study of a selected topic in chemistry that requires a thorough understanding of organic chemistry. Topics vary depending on student interest and instructor availability.
Lecture: three hours.

CHEM 404  *Advanced Topics in Chemistry*  Three Credit Hours
Prerequisites: CHEM 300 and CHEM 305
Elective course.
A detailed study of a selected contemporary topic will be presented at a level that requires comprehension of the subject matter covered in the physical chemistry and quantitative analysis courses.
Lecture: three hours.
CHEM 409  
*Biochemistry I*  
Three Credit Hours  
Prerequisites: CHEM 208, and CHEM 218  
Elective course.  
A coverage of the chemistry of amino acids, peptides and proteins; enzymes; biochemical energetics; Kreb's cycle; electron transport system and oxidative phosphorylation; and amino acid metabolism.  
Lecture: three hours.

CHEM 410  
*Biochemistry II*  
Three Credit Hours  
Prerequisite: CHEM 409 or permission of the instructor.  
A continuation of the topics covered in Biochemistry I. Topics include lipids with emphasis on fatty acid oxidation, synthesis and lipid biosynthesis, and carbohydrates and their metabolism, and nucleic acid biochemistry.  
Lecture: three hours.

CHEM 419  
*Senior Research I*  
Three Credit Hours  
Required of all Chemistry majors; elective to others with permission of the instructor.  
This course provides an introduction to a research topic of the student’s choosing and under the direction of a faculty advisor. After the topic has been approved by the faculty advisor, the student will be allowed to initiate the project. Using this topic, the student will be required to develop a research proposal which will be presented in the form of a seminar to the Chemistry Department Faculty and the chemistry majors. This course satisfies the ROTC fulfillment requirement.

CHEM 420  
*Senior Research II*  
Three Credit Hours  
Prerequisite: CHEM 419  
A continuation of CHEM 419 in which the research project is completed and the data and results are compiled into a senior thesis. To finalize the project, the student will present a seminar to the Chemistry Department Faculty and chemistry majors and defend the thesis before a committee of faculty members from the Chemistry Department. This course satisfies the ROTC fulfillment requirement.

CHEM 429  
*Literature Seminar*  
One Credit Hour  
Prerequisites: CHEM 152/162 or CHEM 154/164; CHEM 208/218.  
A current topics course that involves discussions of relevant biochemistry journal articles and related materials.

CHEM 460  
*Biochemistry Laboratory*  
One Credit Hour  
Corequisite: CHEM 409 OR CHEM 410  
Covers experimental techniques commonly used in biochemistry including protein isolation and characterization, enzyme kinetics, isolation and manipulation of DNA, reactions and characterization of lipids and carbohydrates.  
Laboratory: three hours.
### B.S. CHEMISTRY MAJOR

#### First Semester

**FRESHMAN YEAR**

First Year Experience ........................................... LDRS 101 1 (2,0)

General Chemistry I for Chemistry Majors ... CHEM 153 3 (3,0)

Analytic Geometry and Calculus I .......... MATH 131 4 (4,0)

Modern Language ............................................. 

Physical Fitness, Resiliency, and Wellness ... RPED 260 3 (3,0)

1st Year Basic ROTC ........................................... 101 1 (1,0)

**SOPHOMORE YEAR**

Sophomore Seminar in Principled Leadership LDRS 201/ 1 (1,0)

(211 may be taken either semester) .......... LDRS 211 0 (0,1)

Organic Chemistry I ........................................... CHEM 207 3 (3,0)

Organic Chemistry I Laboratory ............... CHEM 217 1 (0,3)

Physics with Calculus I ................................. PHYS 221 3 (3,0)

Physics with Calculus I Laboratory .......... PHYS 271 1 (0,2)

General Elective ............................................. 

Strand Social Science ....................................... SCSS 30x 3 (3,0)

Required Physical Education .................... RPED 0 (0,1)

2nd Year Basic ROTC ........................................... 201 2 (2,0)

**JUNIOR YEAR**

Junior Ethics Enrichment Experience .......... LDRS 311 0 (1,0)

Quantitative Analysis ................................. CHEM 300 4 (3,3)

Physical Chemistry I ................................. CHEM 305 3 (3,0)

Physical Chemistry I Lab ............................... CHEM 315 1 (0,3)

Strand History ............................................... HISS 30x 3 (3,0)

General Elective ............................................. 

1st Year Advanced ROTC ................................. 

**SENIOR YEAR**

Senior Leadership Integration Seminar ....... LDRS 411 0 (1,0)

Inorganic Chemistry I ................................. CHEM 401 3 (3,0)

Biochemistry ............................................... CHEM 409 3 (3,0)

Senior Research ............................................. CHEM 419 3

**Approved Elective** ........................................... 3 (3,0)

General Elective ............................................. 

2nd Year Advanced ROTC ................................. 

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*Represents semester credit, lecture, and laboratory hours, in that order.

**Approved Electives—BIOL 290, 308, 421, 424, 427; CHEM 402, 404, 410; CSCI 205; MATH 303, 335, 343, 344, 381, 403, 411, 422, 470; PHYS 301, 307, 308, 315, 320, 403, 405, 409, 410.

Note: Some of the courses have prerequisites not listed in the minimum requirements for the BS Chemistry program.
### B.S. CHEMISTRY MAJOR

#### Second Semester

**FRESHMAN YEAR**

- **Freshman Seminar** .............................................. FSEM 101 3 (3,0)
- **Freshman Linked Writing Intensive** ................ FSWI 101 3 (3,0)
- **Modern Language** ............................................ 3 (3,0)
- **General Chemistry II for Chemistry Majors** ... CHEM 154 3 (3,0)
- **General Chemistry II Laboratory for Chemistry Majors** CHEM 164 1 (0,3)

- **Analytic Geometry and Calculus II** ................. MATH 132 4 (4,0)
- **1st Year Basic ROTC** ........................................ 102 1 (1,0)

**SOPHOMORE YEAR**

- **Organic Chemistry II** ........................................ CHEM 208 3 (3,0)
- **Organic Chemistry II Laboratory** ................ CHEM 218 1 (0,3)
- **Physics with Calculus II** ................................ PHYS 222 3 (3,0)
- **Physics with Calculus II Laboratory** .............. PHYS 272 1 (0,2)
- **Introduction to Chemical Research** ................ CHEM 308 3 (3,0)
- **Strand English** ................................................ ENGS 30x 3 (3,0)
- **Required Physical Education** ......................... RPED 0 (0,1)

- **2nd Year Basic ROTC** ........................................

**JUNIOR YEAR**

- **Leadership in Organizations** ......................... LDRS 371 3 (3,0)
- **Instrumental Methods** ................................ CHEM 302 4 (2,4)
- **Physical Chemistry II** ...................................... CHEM 306 3 (3,0)
- **Physical Chemistry II Laboratory** ................ CHEM 316 1 (0,3)
- **Strand Elective** ............................................... ELES 30x 3 (3,0)
- **General Elective** ............................................. 3 (3,0)

- **1st Year Advanced ROTC** ................................

**SENIOR YEAR**

- **Approved Chemistry Elective** ......................... CHEM 3 (3,0)
- **Capstone/Senior Research Project** ................ CHEM 420 3
- **General Elective** ............................................. 3 (3,0)
- **General Elective** ............................................. 3 (3,0)
- **General Elective** ............................................. 3 (3,0)

- **2nd Year Advanced ROTC** ................................

**Approved Chemistry Electives—CHEM 402, 404, 410**

**REQUIRED FOR GRADUATION:** 126 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
### B.S. CHEMISTRY MAJORITY
#### Biochemistry Specialty
#### First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
</tr>
<tr>
<td>General Chemistry I for Chemistry Majors</td>
<td>CHEM 153</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>General Chemistry I Laboratory for Chemistry Majors</td>
<td>CHEM 163</td>
<td>1 (0,3)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH 131</td>
<td>4 (4,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3 (3,0)</td>
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<tr>
<td>1st Year Basic ROTC</td>
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<td>1 (1,0)</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership (211 may be taken either semester)</td>
<td>LDRS 201/1</td>
<td>1 (1,0)</td>
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<tr>
<td>Organic Chemistry I</td>
<td>CHEM 207</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Organic Chemistry I Laboratory</td>
<td>CHEM 217</td>
<td>1 (0,3)</td>
</tr>
<tr>
<td>Physics with Calculus I</td>
<td>PHYS 221</td>
<td>3 (3,0)</td>
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<tr>
<td>Physics with Calculus I Laboratory</td>
<td>PHYS 271</td>
<td>1 (0,2)</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS 30x 3</td>
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<tr>
<td>Introduction to Biology I</td>
<td>BIOL 130</td>
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<td>Introduction to Biology I Laboratory</td>
<td>BIOL 131</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
<td>0 (1,0)</td>
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<tr>
<td>Quantitative Analysis</td>
<td>CHEM 300</td>
<td>4 (3,3)</td>
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<tr>
<td>Biochemistry I</td>
<td>CHEM 409</td>
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<tr>
<td>Biochemistry Laboratory</td>
<td>CHEM 460</td>
<td>1 (0,3)</td>
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<td>Strand Social Science</td>
<td>SCSS 30x 3</td>
<td>3 (3,0)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x 3</td>
<td>3 (3,0)</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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<td></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0 (1,0)</td>
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<tr>
<td>Physical Chemistry I</td>
<td>CHEM 305</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Inorganic Chemistry I</td>
<td>CHEM 401</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Senior Research I</td>
<td>CHEM 419</td>
<td>3</td>
</tr>
<tr>
<td>Strand Elective</td>
<td>ELES 30x 3</td>
<td>3 (3,0)</td>
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<tr>
<td>General Elective</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
**B.S. CHEMISTRY MAJOR**  
**Biochemistry Specialty**  
**Second Semester**

**FRESHMAN YEAR**  
Freshman Seminar ................................................. FSEM 101 3 (3,0)  
Freshman Linked Writing Intensive ...................... FSWI 101 3 (3,0)  
Modern Language ............................................. 3 (3,0)  
General Chemistry II for Chemistry Majors .. CHEM 154 3 (3,0)  
General Chemistry II Laboratory for .............. CHEM 164 1 (0,3)  
Chemistry Majors  
Analytic Geometry and Calculus II ................. MATH 132 4 (4,0)  
1st Year Basic ROTC ........................................ 102 1 (1,0)

**SOPHOMORE YEAR**  
Organic Chemistry II ........................................ CHEM 208 3 (3,0)  
Organic Chemistry II Laboratory ...................... CHEM 218 1 (0,3)  
Physics with Calculus II ................................ PHYS 222 3 (3,0)  
Physics with Calculus II Laboratory ............ PHYS 272 1 (0,2)  
Introduction to Biology II ......................... BIOL 140 3 (3,0)  
Introduction to Biology II Laboratory ............. BIOL 141 1 (0,3)  
Required Physical Education ....................... RPED  0 (0,1)  
Introduction to Chemical Research ............... CHEM 308 3 (3,0)  
2nd Year Basic ROTC .........................................

**JUNIOR YEAR**  
Leadership in Organizations ......................... LDRS 371 3 (3,0)  
Strand History ............................................... HISS 30x 3 (3,0)  
Instrumental Methods .................................... CHEM 302 4 (2,4)  
Biochemistry II ............................................. CHEM 410 3 (3,0)  
**Approved Biology Elective ....................... BIOL  4 (3,3)  
1st Year Advanced ROTC .................................

**SENIOR YEAR**  
Capstone/Senior Research II ......................... CHEM 420 3 (3,0)  
Physical Chemistry II .................................... CHEM 306 3 (3,0)  
Physical Chemistry II Laboratory ............. CHEM 316 1 (0,3)  
General Elective ........................................... 3 (3,0)  
General Elective ........................................... 3 (3,0)  
2nd Year Advanced ROTC ..............................

**Approved Biology electives: BIOL 290, 308, 421, 424, 427**

REQUIRED FOR GRADUATION: 124 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# B.A. CHEMISTRY MAJOR

## First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LDRS 101</td>
<td>1 (2,0)*</td>
</tr>
<tr>
<td>FSEM 101</td>
<td>3 (3,0)</td>
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<tr>
<td>FSWI 101</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 153</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 163</td>
<td>1 (0,3)</td>
</tr>
<tr>
<td>MATH 106</td>
<td>3 (3,0)</td>
</tr>
</tbody>
</table>

### LDRS 101 1 (2,0)*
Freshman Seminar

### FSEM 101 3 (3,0)
Freshman Linked Writing Intensive

### CHEM 153 3 (3,0)
General Chemistry I for Chemistry Majors

### CHEM 163 1 (0,3)
General Chemistry I Laboratory for Chemistry Majors

### MATH 106 3 (3,0)
**Applied Calculus I**

### 3 (3,0)
Modern Language

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LDRS 201/ 1 (1,0)</td>
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<tr>
<td>LDRS 211</td>
<td>0 (0,1)</td>
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<tr>
<td>ENGS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 207</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 217</td>
<td>1 (0,3)</td>
</tr>
<tr>
<td>SCSS 30x</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>PHYS 203</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>PHYS 253</td>
<td>1 (0,2)</td>
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<tr>
<td>RPED</td>
<td>0 (0,1)</td>
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### ENGS 30x 3 (3,0)
Strand English

### CHEM 207 3 (3,0)
Organic Chemistry I

### CHEM 217 1 (0,3)
Organic Chemistry I Laboratory

### SCSS 30x 3 (3,0)
Strand Social Science

### PHYS 203 3 (3,0)
College Physics I

### PHYS 253 1 (0,2)
College Physics I Laboratory

### RPED 0 (0,1)
Required Physical Education

### 201 2 (2,0)
2nd Year Basic ROTC

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDRS 311</td>
<td>0 (1,0)</td>
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<tr>
<td>ELES 30x</td>
<td>3 (3,0)</td>
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<tr>
<td>CHEM 401</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 419</td>
<td>3 (2,0)</td>
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</table>

### LDRS 311 0 (1,0)
Junior Ethics Enrichment Experience

### ELES 30x 3 (3,0)
Strand Elective

### CHEM 401 3 (3,0)
General Elective

### CHEM 419 3 (2,0)
General Elective

### 3 (3,0)
General Elective

### 3 (3,0)
General Elective

### 1st Year Advanced ROTC

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDRS 411</td>
<td>0 (1,0)</td>
</tr>
<tr>
<td>CHEM 401</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>CHEM 419</td>
<td>3 (2,0)</td>
</tr>
</tbody>
</table>

### LDRS 411 0 (1,0)
Senior Leadership Integration Seminar

### CHEM 401 3 (3,0)
Inorganic Chemistry I

### CHEM 419 3 (2,0)
Senior Research I

### 4 (3,3) or 3 (3,0)
****Approved Elective

### 3 (3,0)
General Elective

### 3 (3,0)
General Elective

### 3 (3,0)
General Elective

### 2nd Year Advanced ROTC

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum."

***Required Advanced Courses: One course must be taken from each of the following areas: CHEM 300 or 302; CHEM 305/315 or 306/316. The second course of the sequence may be taken as an approved elective or general elective.

# B.A. CHEMISTRY MAJOR

## FRESHMAN YEAR

**Second Semester**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry II for Chemistry Majors</td>
<td>CHEM 154</td>
<td>3 (3,0)</td>
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<tr>
<td>General Chemistry II Laboratory</td>
<td>CHEM 164</td>
<td>1 (0,3)</td>
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<tr>
<td><strong>Chemistry Majors</strong></td>
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<tr>
<td><strong>Applied Calculus II</strong></td>
<td>MATH 107</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3 (3,0)</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
<td>3 (3,0)</td>
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<td>General Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>1st Year Basic ROTC</td>
<td></td>
<td>102 1 (1,0)</td>
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## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Organic Chemistry II</td>
<td>CHEM 208</td>
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<tr>
<td>Organic Chemistry II Laboratory</td>
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<td>College Physics II</td>
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<tr>
<td>College Physics II Laboratory</td>
<td>PHYS 254</td>
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<td>Strand History</td>
<td>HISS 30x</td>
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<tr>
<td>Introduction to Chemical Research</td>
<td>CHEM 308</td>
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<td>Required Physical Education</td>
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## JUNIOR YEAR

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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<td><strong>Required Advanced Course with lab</strong></td>
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<tr>
<td>Strand Natural Science</td>
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<tr>
<td>General Elective</td>
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<td>3 (3,0)</td>
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<tr>
<td>1st Year Advanced ROTC</td>
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## SENIOR YEAR

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<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>Capstone/Senior Research II</td>
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<td>2nd Year Advanced ROTC</td>
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REQUIRED FOR GRADUATION: 122 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
The mission of the Department of Cyber and Computer Sciences is to prepare our students to meet the cyber and computing demands they will face in their careers and as knowledgeable citizens and leaders. To achieve this goal, the department offers a B.S. degree in Computer Science and a B.S. degree in Cyber Operations, along with four minors: cybersecurity, cyber interdisciplinary studies, data science, and computer programming. At the graduate level, jointly with the College of Charleston, the department offers the M.S. degree in Computer and Information Sciences and graduate certificate programs in Cybersecurity and Software Engineering. The department supports the disciplines of cyber and computer sciences and the growth and development of educational opportunities in the Lowcountry through our academic programs, research, and public service. Since 2016, The Citadel has been designated as a National Center of Academic Excellence in Cyber Defense Education by the National Security Agency and Department of Homeland Security.

B.S. Computer Science Major
The B.S. program in computer science offers the student a sound foundation in computer science complemented by a broad core of courses in the sciences and liberal arts, a background in mathematics with sufficient breadth and depth to enable the student to deal with scientific applications as well as the theoretical basis of computer science, and an exposure to computer hardware (microprocessors) through courses offered by the Department of Electrical and Computer Engineering. Through electives, the student will have the opportunity to gain background in areas such as business administration and political science where the information processing aspects of computer science are readily applied. Upon completion of this course of study, students will be qualified for careers as system analysts, system programmers, or applications programmers in business or industry. In addition, graduates will be prepared to pursue advanced degrees in computer science or related fields. This program is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org.

The course of study leading to the B.S. with a major in computer science includes 18 hours of electives; 17 hours of core mathematics and statistics: MATH 131, MATH 132, MATH 206, STAT 261; a MATH/STAT elective; and 40 hours of required courses in computer science: CSCI 201, CSCI 202, CSCI 211, CSCI 223, CSCI 305, CSCI 317, CSCI 320, CSCI 355, CSCI 405, CSCI 420, CSCI
495, ELEC 311, ELEC 330, and one of CSCI 421 or CSCI 499; and 6 hours of Approved Computer Science Electives selected from among the computer science courses offered at the 300 or 400 level. In addition, General Education requirements for a selected strand, physical education, modern language, and laboratory science must be completed. The complete course of study is provided in the Courses of Study section of this catalog. The program has 119 base credit hours required, plus required courses in leadership, plus required courses in ROTC.

All undergraduate courses taken at The Citadel with a subject prefix of CSCI will count towards the major GPA.

Program Educational Objectives (PEOs) for B.S. in Computer Science
Within five years of graduation, alumni of the B.S. program in Computer science should be:
1. Conducting successful career in computer science disciplines and/or pursuing graduate study in computer science.
2. Demonstrating life-long learning skills and adapting to emerging markets and technologies.
3. Embracing high personal and professional standards of conduct, citizenship, and service.

Student Outcomes (SOs) for B.S. in Computer Science
Graduates of the program will have an ability to:
1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

B.S. Cyber Operations Major
The mission of B.S. program in cyber operations is to develop the next generation of cyber leaders who can analyze the security of cyber systems, protect and defend cyber systems, investigate different types of attacks and incidents in cyber systems in the industry, government or military environment. The Citadel has been designated as National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) by National Security Agency and Department of Homeland Security in 2016. The Citadel currently offers B.S. in computer science and a minor in cybersecurity which is the academic path for CAE-CDE. The B.S. in cyber operations will be a standalone major that will meet the academic standards of Center of Excellence in Cyber Operations program set by National Security Agency. This major is deeply technical and interdisciplinary program grounded in computer science, computer engineering, and/or electrical engineering disciplines, with extensive opportunities for hands-on applications via labs and exercises. The major is housed in the Department of Cyber and Computer Sciences.
The course of study leading to the B.S. with a major in cyber operations includes 12 hours of electives; 17 hours of core mathematics and statistics: MATH 131, MATH 132, MATH 206, MATH 302, STAT 261; and 52 hours of required courses in computer science and cyber operations: CSCI 201, CSCI 202, CSCI 211, CSCI 223, CSCI 227, CSCI 305, CSCI 317, CSCI 320, CSCI 327, CSCI 405, CSCI 408, CSCI 409, CSCI 410, CSCI 411, CSCI 427, ELEC 311, ELEC 330, and one of CSCI 421 or CSCI 499; and 3 hours of Approved Cyber Elective selected from CRMJ 331, CRMJ 392, CSCI 490. In addition, General Education requirements for a selected strand, physical education, modern language, and laboratory science must be completed. The complete course of study is provided in the Courses of Study section of this catalog.

**Student Outcomes (SOs) for B.S. in Cyber Operations**

Graduates of the program will have an ability to:

1. Apply security principles and practices to the design and implementation of the physical, software, and human component of the cyber systems,
2. Analyze and evaluate cyber systems with respect to security,
3. Identify, analyze, and mitigate threats in the cyber systems.

**Minor in Computer Programming**

**Objectives:**

A minor in computer programming will provide a student with the opportunity to develop the skills necessary for designing and understanding large programs.

**Competencies, Knowledge, or Skills to be Achieved:**

A student who completes this minor will receive experience with computer programming in a high-level object-oriented language. A student will have the opportunity to develop a sound foundation in techniques for designing, implementing, testing, and debugging computer software.

**This minor is not approved for students majoring in Computer Science.**

**Structure of the Minor:**

1. **Required courses:** (13 credit hours)
   - CSCI 201 Introduction to Computer Science I
   - CSCI 211 Introduction to Computer Science I Lab
   - CSCI 202 Introduction to Computer Science II
   - CSCI 223 Data Structures and Algorithms
   - MATH 206 Discrete Structures*
   - *Mathematics majors must substitute an additional CSCI elective.
2. **Electives (3 credit hours)**
   - Any CSCI course numbered 300 or higher.

**Total Credit Hours Required:** 16, at least 9 of which must be completed at The Citadel
Minor in Cybersecurity

Objectives:
This minor is designed to prepare students with the technical skills for entry into cybersecurity positions in industry, government agencies, or the military.

Competencies, Knowledge, or Skills to be Achieved:
A student who completes this minor will have a sound technical foundation in the disciplines required for cybersecurity including computer organization/architecture, computer networks, computer security, and cybersecurity. The content of this minor is based on knowledge unit recommended by the National Security Agency and Department of Homeland Security National Center of Academic Excellence Cyber Defense Education (CAE-CD-E) program.

Structure of the Minor:
1. Required courses (6 credit hours)
   - CSCI 327 Computer Security
   - CSCI 427 Advanced Cybersecurity
2. Required course in computer organization/architecture (3 credit hours)
   One of the following courses:
   - CSCI 305 Computer Organization and Programming
   - ELEC 330 Digital Systems Engineering
3. Required course in computer networks (3 credit hours)
   One of the following courses:
   - CSCI 317 Computer Networks and Internets
   - ELEC 419 Computer Network Architecture
4. Elective (3 credit hours)
   One of the following courses:
   - CRMJ 331 Cyber Investigations
   - CRMJ 392 Cyber Crime

Students majoring in Computer Science will be required to take both courses or one of these courses plus one additional computer science course at the 300/400 level.

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

This minor is not approved for students majoring in Cyber Operations.

Minor in Cyber Interdisciplinary Studies

Objectives:
Due to sophisticated cyber attacks and increased use of cyberspace, it is important to make every student a good cyber citizen who knows the concepts and best practices of cybersecurity, cyber safety and cyber ethics. This comprehensive and interdisciplinary minor in cybersecurity is designed for all majors.

Competencies, Knowledge, or Skills to be Achieved:
A student who completes this minor will gain knowledge in information systems, principles and practices of cybersecurity, cyber safety and cyber ethics, basic defense mechanism in cyberspace, best practices for seizing and securing digital evidence in cyber investigations, current state of cyber crimes, cyber laws, and cyber policies.
Structure of the Minor

1. Required Courses (12 credit hours)
   - CSCI 210 Introduction to Information Systems
   - CSCI 227 Principles and Practices of Cybersecurity
   - CRMJ 331 Cyber Investigations
   - CRMJ 392 Cyber Crime

2. One Elective (3 credit hours)
   Choose one of the following:
   - CSCI 490 Special Topics
   - CRMJ 465 Special Topics

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.

Minor in Data Science

Objectives:
Data Science minor aims to provide students with practical knowledge of the methods and techniques of data analysis, as well as the ability to think critically about the construction and implications of data analysis and models. The minor will empower students across the wide array of campus disciplines with a working knowledge of statistics, probability, and computation that allow students not just to participate in data science projects, but to design and carry out rigorous computational and inferential analysis for their field of interest.

Competencies, Knowledge, or Skills to be Achieved:
A student who completes the minor will be able to formulate questions in a domain that can be answered with data, use tools and algorithms from data mining, statistics, applied mathematics, and computer science for analyses, visualize, interpret, and explain results cogently, accurately, and persuasively, understand the underlying social, political, and ethical contexts that are importantly and inevitably tied to data-driven decision-making, be able to connect data to underlying phenomena and to think critically about conclusions drawn from data analysis, be knowledgeable about programming abstractions so that they can later design their own computational inferential procedures, and be well versed with the Python and R programming languages.

Structure of the Minor:

1. Required courses: (12 credit hours)
   - CSCI 205 Introduction to Programming using Python
   - CSCI 350 Introduction to Data Mining I
   - STAT 366 Applied Statistics
   - STAT 461 Data Analysis

2. Electives (3 credit hours)
   One of the following courses:
   - CSCI 320 Database Design
   - MATH 240 Linear Algebra
   - ECON 202 Principles of Macroeconomics
   - BIOL 308 Genetics
   - INTL 310 Intelligence Collection Systems and Programs

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel.
Computer Science Course Descriptions

CSCI 103  *Survey of Computer Science*  Two Credit Hours
The computer is examined as a machine, problem-solving tool, and information repository. An overview of the discipline of computer science is presented. Students will receive hands-on experience with the computing facilities at The Citadel, and they will learn how to research technical topics and present the results in written form.

CSCI 110  *Microcomputer Applications*  Three Credit Hours
An introduction to computer systems and computer applications. Students learn to use software packages for word processing, database management, spreadsheets, and presentations with applications to management and social sciences.

CSCI 201  *Introduction to Computer Science I*  Three Credit Hours
Prerequisite or corequisite: CSCI 211
Required for all computer science and mathematics majors.
No previous computer programming experience is needed for this course.
An introduction to problem solving and algorithm development using Java.
Topics include computer organization, operating systems, structured programming, and program modularization. Assignments involve designing, coding, debugging, and documenting computer programs.

CSCI 202  *Introduction to Computer Science II*  Three Credit Hours
Prerequisite: CSCI 201 with a grade of “C” or higher
Required for B.S. degree in computer science.
A continuation of the material covered in CSCI 201. This course emphasizes object-oriented programming and a disciplined approach to program development. Topics include data abstraction, recursion, inheritance, polymorphism, linked data structures, stacks, and queues.

CSCI 205  *Introduction to Programming with Python*  Three Credit Hours
Prerequisites: None
This course teaches hands-on computer programming skills to students who are not computer science majors. This includes how to frame a problem as an algorithm, how to translate an algorithm to executable code, how to be sure the code does what you want. Programming assignments are drawn from a variety of domains and develop practical scripting and demonstration over theory.

CSCI 207  *Web Programming I*  Three Credit Hours
Prerequisite: Sophomore standing
No previous computer programming experience is needed for this course.
An introduction to the World Wide Web (WWW), client server architecture, how the internet works, and the foundational web programming technologies – HTML, CSS and JavaScript.
CSCI 210  
*Introduction to Information Systems*  Three Credit Hours  
Prerequisites: None  
This course introduces computers and information systems, including fundamental concepts of hardware and software as applied to computers in a business environment. Topics will include introductions to databases, web interfaces, networking, and operating systems, basic computer architecture, privacy and security, and computational thinking and problem solving. Students will work with spreadsheet, database, and other applications, and a simple programming language. The course assists those seeking a career as a computing professional, an understanding of the role of Information Systems in the business community, or introductory computing skills.

CSCI 211  
*Introduction to Computer Science I Lab*  One Credit Hour  
Prerequisite or corequisite: CSCI 201  
Required for all computer science and mathematics majors.  
Laboratory exercises designed to parallel and support the lecture content of CSCI 201.

CSCI 216  
*Introduction to Programming and Databases*  Three Credit Hours  
Prerequisite: Sophomore standing  
Computer-oriented information systems. Program construction in Visual Basic with applications in the management and social sciences is presented in a microcomputer environment. Topics include data organization and collection, file organization, sort and search techniques, database construction, and manipulating data created in Microsoft Access using Visual Basic.

CSCI 217  
*Web Resources and Design*  Three Credit Hours  
Prerequisite: Sophomore standing  
This course provides an introduction to web page design and the Internet. Topics include finding and evaluating resources, legal issues, web design, HTML, CSS, and dynamic HTML pages.

CSCI 223  
*Data Structures and Algorithms*  Three Credit Hours  
Prerequisites: CSCI 202 and MATH 206  
Required for B.S. degree in computer science and cyber operations.  
Formal specification and implementation of abstract data types and analysis of algorithms. Topics include list and set representation methods, sorting, trees and graphs. Data structures used include stacks, queues, binary trees, hash tables, priority queues, and search trees.

CSCI 227  
*Principles and Practices of Cybersecurity*  Three Credit Hours  
Prerequisites: None  
Required for B.S. degree in cyber operations.  
This course will provide an introduction to concepts related to cybersecurity. Students will learn safe practices which can be deployed to secure computer systems. Students will gain an understanding of different tools which can be used to defend attacks on computer systems. Special emphasis will be given to systems and applications that cyber users will likely to encounter in daily life. In addition to lecture classes, security lab exercises will be conducted to perform hands-on experiments on safe security practices.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 290</td>
<td>Computer Science Topics</td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: None</td>
<td>Credit Hours</td>
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<tr>
<td></td>
<td>A study of a particular aspect of computer science</td>
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<td></td>
<td>or a related area that is of interest to both</td>
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<td></td>
<td>computer science majors and other majors and</td>
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<td></td>
<td>assumes no prerequisites.</td>
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<tr>
<td>CSCI 305</td>
<td>Computer Organization and Programming</td>
<td>Three</td>
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<td></td>
<td>Prerequisite: CSCI 201 with a grade of “C” or</td>
<td>Credit Hours</td>
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<td></td>
<td>higher; prerequisite or corequisite: MATH 206</td>
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<td></td>
<td>Required for B.S. degree in computer science and</td>
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<td>cyber operations.</td>
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<td></td>
<td>Relationship of the conventional machine level</td>
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<td>of a modern computer system with its other</td>
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<td>levels. Topics are chosen from addressing;</td>
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<td></td>
<td>machine instructions; I/O; subroutines;</td>
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<td>parameters; recursion; stacks; interrupts;</td>
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<td>number systems and arithmetic; and the physical,</td>
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<td>digital, and the microprogramming levels.</td>
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<tr>
<td>CSCI 307</td>
<td>Web Programming II</td>
<td>Three</td>
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<td></td>
<td>Prerequisite: CSCI 207</td>
<td>Credit Hours</td>
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<td></td>
<td>A continuation of the material covered in CSCI</td>
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<td></td>
<td>207. This course takes a deeper dive into</td>
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<td>JavaScript (JS), the most in-demand coding</td>
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<td></td>
<td>language, with an emphasis on developing single-</td>
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<td></td>
<td>page web applications using JS frameworks</td>
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<td></td>
<td>such as Angular and Ember.</td>
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<tr>
<td>CSCI 317</td>
<td>Computer Networks and Internets</td>
<td>Three</td>
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<td></td>
<td>Prerequisites: CSCI 202 and CSCI 305, or ELEC</td>
<td>Credit Hours</td>
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<tr>
<td></td>
<td>206 and ELEC 311</td>
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<td>Required for B.S. degree in computer science and</td>
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<td>cyber operations.</td>
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<td></td>
<td>An introduction to data communications and</td>
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<td></td>
<td>computer networking. Topics include LAN</td>
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<td>technologies, packet switching networks,</td>
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<td>internetworking of heterogeneous network</td>
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<td>technologies, internetworking protocol suites</td>
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<td></td>
<td>(with emphasis on TCP/IP), the client/server</td>
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<td>paradigm, the BSD Socket interface, network</td>
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<td>security, and important network applications.</td>
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<td>CSCI 320</td>
<td>Database Design</td>
<td>Three</td>
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<td></td>
<td>Prerequisite: CSCI 202 or CSCI 216</td>
<td>Credit Hours</td>
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<td></td>
<td>Required for B.S. degree in computer science and</td>
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<td></td>
<td>cyber operations.</td>
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<td>An introduction to the logical and physical</td>
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<td></td>
<td>structures of computer database systems. Topics</td>
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<td>include data models, query languages, relational</td>
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<td>database design, and database constraints.</td>
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<td>Students will be required to complete a project</td>
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<td>involving database design and implementation.</td>
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<tr>
<td>CSCI 327</td>
<td>Computer Security</td>
<td>Three</td>
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<td></td>
<td>Prerequisites: CSCI 201 and MATH 206, or ELEC</td>
<td>Credit Hours</td>
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<td>206 and ELEC 311</td>
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<td></td>
<td>Required for B.S. degree in cyber operations.</td>
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<tr>
<td></td>
<td>A survey of the principles and practices related</td>
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<td>to computer security emphasizing the problems</td>
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<td>of security associated with computer networks.</td>
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<td>Topics include cryptography, privacy,</td>
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<td>authentication, access control and authorization,</td>
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<td>security policies, and legal and ethical issues.</td>
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<td>A significant component of the course is the</td>
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<td>investigation of attacks commonly used by</td>
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<td>computer criminals and strategies that can be</td>
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<td>used to thwart the attacks.</td>
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</tbody>
</table>
CSCI 350  
*Introduction to Data Mining*  
Three Credit Hours  
Prerequisite: CSCI 205 or CSCI 202 and STAT 160 or STAT 261  
Data mining is the process of automatically finding useful hidden patterns in data. The objective of data mining is to use discovered patterns to help explain current behaviors or to predict the future outcomes. The knowledge discovery process includes data selection, cleaning, coding, using different statistical and machine learning techniques, and visualization of the generated structures. This course will expose students to data mining concepts, techniques and software utilized in the overall process of discovering knowledge within data.

CSCI 355  
*Programming Languages*  
Three Credit Hours  
Prerequisite: CSCI 223; prerequisite or corequisite: CSCI 305  
Required for B.S. degree in computer science.  
Programming language concepts and constructs with emphasis on the run-time behavior of programs. Topics include imperative, functional and logic programming paradigms, language syntax and semantics, and global properties of programming languages including scope, parameter passing, storage allocation, and the binding time of constituents.

CSCI 365  
*Object Oriented Programming Using C++*  
Three Credit Hours  
Prerequisite: CSCI 223  
This course provides a solid foundation for object-oriented programming using the C++ programming language. It emphasizes the effective use of the advanced language features, presented in the context of modern software engineering themes of modularity, abstraction, information hiding, and reusability. Fundamental principles of object-oriented design and programming are stressed while covering the language details.

CSCI 370  
*Developing Mobile Applications*  
Three Credit Hours  
Prerequisite: CSCI 202 or ELEC 206  
This hands-on, project-oriented course explores the principles and tools involved in the design and construction of applications for mobile devices. Although a specific offering of the course might focus on one platform (e.g., smartphones running Google Android or Apples iOS), the basic concepts and experiences extend to other mobile devices. Topics include an overview of mobile application development, the platform application architecture, mobile application lifecycle, managing application resources, designing user interfaces, data storage options, integrating audio and video, location-based services, cross-platform development using a mobile device emulator, and porting applications to actual devices. In addition to several smaller programming assignments to provide experience and reinforce concepts, students will work in teams on a substantial programming project to design, develop, and deploy a mobile application.

CSCI 375  
*Enterprise Java*  
Three Credit Hours  
Prerequisite: CSCI 223  
A project-oriented course that introduces advanced Java technologies for building distributed enterprise and web applications. Topics include threads, networking, security, JDBC, servlets, and JavaServer Pages (JSP).
CSCI 399  Junior Research Project  Three Credit Hours
Open only to junior computer science majors with a CSCI GPA of at least 3.0.
It is required to have a written proposal accepted by the research advisor
and the department head.
This course offers a junior computer science student the opportunity to
complete research in an area of current interest and importance in computer
science in collaboration with a research advisor. A formal paper is required in
this course. Although it is a 300-level course, this course is not approved as a
departmental elective. It may be used to fulfill a general elective.

CSCI 405  Operating Systems  Three Credit Hours
Prerequisites: CSCI 223 and CSCI 305
Required for B.S. degree in computer science and cyber operations.
An introduction to the concepts of modern operating system design, the
architectural features of modern computer systems, and a study of the imple-
mentations of these components in actual operating systems. Topics include
data structures and algorithms to support process control, concurrency, and
scheduling; memory management, including virtual memory architectures; and
I/O and file management.

CSCI 407  Computer Graphics  Three Credit Hours
Prerequisites: CSCI 223 and MATH 240
An introduction to the fundamental principles of two- and three-dimensional
computer graphics. Topics include graphics systems, transformations, clipping,
amination, lighting, shading, color, and hidden surface removal. Graphics prin-
ciples are applied and reinforced through the use of a modern graphics application
programming interface (API) to implement a series of programming projects.

CSCI 408  Software Security  Three Credit Hours
Prerequisites: CSCI 223 and CSCI 305
Co-requisite/Prerequisite: CSCI 327
Required for B.S. degree in cyber operations.
An introduction to secure software development methodologies, reverse
engineering, and software exploitation. Topics include secure programming
principles and practices, source code auditing, fuzzing, binary code analysis,
reverse engineering, and exploitation. A heavy emphasis will be placed on
hands-on lab activities to enforce concepts.

CSCI 409  Malware Analysis  Three Credit Hours
Prerequisites: CSCI 408
Required for B.S. degree in cyber operations
An introduction to malware analysis. Topics include detection, obfuscation,
and static and dynamic analysis techniques. Students will be introduced to a
variety of different malware types, including, but not limited to, interpreted
languages, macros, and compiled executables. A heavy emphasis will be placed
on the use of hands-on lab activities to enforce concepts.
CSCI 410  
**Offensive Cyber Operations**  
Three Credit Hours  
Prerequisites: CSCI 408 or CSCI 427  
Required for B.S. degree in cyber operations  
An overview of the phases involved in an offensive cyber operation. Special attention will be paid to decision authority/authorization, the cyber kill chain, mission planning, execution, and assessment. Hands-on labs will be used to demonstrate and enforce concepts.

CSCI 411  
**Cyber Forensics**  
Three Credit Hours  
Prerequisites: CSCI 223, CSCI 305, CSCI 327  
Required for B.S. degree in cyber operations  
An introduction to digital forensics on Windows-based Operating Systems. Topics include the incident response lifecycle, collecting forensically sound evidence, analyzing memory and filesystems, and report writing. Hands-on lab assignments will be used extensively to apply concepts.

CSCI 412  
**Compiler Design**  
Three Credit Hours  
Prerequisites: CSCI 223 and CSCI 305  
This course explores the basic principles, algorithms, data structures, and tools involved in the design and construction of compilers. Topics include formal grammars, lexical analysis, parsing algorithms, semantic analysis, error recovery, code generation, and optimization. Each student will be required to complete a substantial programming project, the implementation of a compiler for a small programming language.

CSCI 420  
**Software Engineering**  
Three Credit Hours  
Prerequisite: CSCI 223  
Required for B.S. degree in computer science.  
An introduction to current techniques used in medium- and large-scale software development. Topics include requirements analysis, functional specification, systems design, implementation, testing, maintenance, project management, and professional ethics.

CSCI 421  
**Software Engineering Practicum**  
Three Credit Hours  
Prerequisite: CSCI 420  
A team-based project class to apply software engineering practices in a realistic environment. The purpose of the course is to give students an opportunity to construct real-world software in a group using standard software engineering practices.

CSCI 427  
**Advanced Cybersecurity**  
Three Credit Hours  
Prerequisite: CSCI 327  
Required for B.S. degree in cyber operations.  
This course will cover the techniques used to secure cybersystems. Topics covered will include security policies, computer security management and risk assessment, secured network protocols, software security issues, ethical and legal aspects of security, and disaster recovery. Special emphasis will be given to designing, deploying, and managing complete secured cybersystems.
CSCI 455  *Artificial Intelligence*  Three Credit Hours
Prerequisite: CSCI 223
A survey of artificial intelligence concepts, theory and practice. Topics include AI languages, knowledge representation, search strategies, logical and probabilistic reasoning, machine learning, natural language processing, expert systems, computer vision and AI robotics. Students will implement intelligent systems in software and/or hardware.

CSCI 490  *Advanced Topics in Computer Science*  Three Credit Hours
Selected topics in computer science. The offering of this course will depend upon the interest of the students, the availability of an instructor, and approval of the department head. Since the content of the course may change, a student may repeat the course for credit with the consent of the department head.

CSCI 491  *Internship*  Three Credit Hours
Open only to senior computer science majors with a CSCI GPA of at least 2.500.
This course gives senior students real-world work experience to complement the classroom education they have already received. Interns will learn about the variety of issues involved in developing, implementing, and managing computing resources in a real-world setting. Interns will spend ten to twelve hours per week in an area business working alongside an experienced computing professional or as part of a development team.

CSCI 495  *Senior Seminar in Computer Science*  Three Credit Hours
Open only to senior computer science majors.
Required for the B.S. in Computer Science.
A variety of topics in computer science will be studied in areas ranging from theoretical computer science to social, professional, and ethical issues. Students will be required to make oral and written presentations.

CSCI 499  *Senior Research Project*  Three Credit Hours
Open only to senior computer science majors with a CSCI GPA of at least 2.500.
Required for the B.S. in Computer Science and cyber operations.
A research project with a required formal paper. Recommended for students planning graduate work. Enrollment based upon a written proposal accepted by the instructor and approved by the department head.
## COMPUTER SCIENCE MAJOR

### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience</td>
<td>LDRS</td>
<td>101</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Computer Science I</td>
<td>CSCI</td>
<td>201</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Computer Science I Lab</td>
<td>CSCI</td>
<td>211</td>
<td>1</td>
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<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH</td>
<td>131</td>
<td>4</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td></td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED</td>
<td>260</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS</td>
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### Junior Year

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<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
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### Senior Year

<table>
<thead>
<tr>
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<th>Department</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
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</table>

### Notes

- * Any two of the following lecture/lab pairs: BIOL 101/111, BIOL 102/112, CHEM 151/161, CHEM 152/162, PHYS 221/271, PHYS 222/272
- **Any MATH or STAT course numbered 200 or higher.
- ***GenEd Capstone
### COMPUTER SCIENCE MAJOR

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
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<td>(3,0)</td>
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<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to Computer Science II</td>
<td>CSCI 202</td>
<td>3</td>
<td>(3,2)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH 132</td>
<td>4</td>
<td>(4,0)</td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
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<tr>
<td>1st Year Basic ROTC</td>
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#### Sophomore Year

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<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Data Structures and Algorithms</td>
<td>CSCI 223</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to Probability and Statistics</td>
<td>STAT 261</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM 260</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>*Science (satisfies Strand science requirements)</td>
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<td>4</td>
<td>(3,2)</td>
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#### Junior Year

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<th>Credits</th>
<th>Hours</th>
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<td>Computer Networks and Internets</td>
<td>CSCI 317</td>
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<td>Database Design</td>
<td>CSCI 320</td>
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<tr>
<td>***Math Elective</td>
<td>MATH</td>
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<td>(3,0)</td>
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<tr>
<td>General Elective</td>
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<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
<td>(3,0)</td>
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#### Senior Year

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<th>Course</th>
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<td>Software Engineering Practicum</td>
<td>CSCI 421</td>
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<td>or Senior Research Project</td>
<td>CSCI 499</td>
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<td>Digital Systems Engineering</td>
<td>ELEC 330</td>
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<td>Approved Computer Science Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>CYBER OPERATIONS MAJOR</td>
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<tr>
<td><strong>First Semester</strong></td>
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<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>First Year Experience</td>
<td>LDRS 101 1 (2,0)</td>
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<tr>
<td>Introduction to Computer Science I</td>
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<tr>
<td>Introduction to Computer Science I Lab</td>
<td>CSCI 211 1 (0,1)</td>
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<tr>
<td>Principles and Practices of Cybersecurity</td>
<td>CSCI 227 3 (3,0)</td>
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<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH 131 4 (4,0)</td>
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<td>Modern Language</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260 3 (3,0)</td>
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<td>1st Year Basic ROTC</td>
<td>101 1 (1,0)</td>
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<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
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<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201 1 (1,0)</td>
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<td>(211 may be taken either semester)</td>
<td>LDRS 211 0 (0,1)</td>
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<tr>
<td>Computer Organization &amp; Programming</td>
<td>CSCI 305 3 (3,0)</td>
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<td>Introduction to Discrete Structures</td>
<td>MATH 206 3 (3,0)</td>
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<tr>
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<td><strong>JUNIOR YEAR</strong></td>
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<td>Junior Ethics Enrichment Experience</td>
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<td>Operating Systems</td>
<td>CSCI 405 3 (3,0)</td>
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<td>General Elective</td>
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<tr>
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<td><strong>SENIOR YEAR</strong></td>
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<tr>
<td>Senior Leadership Integration Seminar</td>
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<td>Offensive Cyber Operations</td>
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<td>CRMJ 401 3 (3,0)</td>
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<td>Strand History</td>
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<td>Digital Logic and Circuits</td>
<td>ELEC 311 3 (3,0)</td>
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<tr>
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* Any two of the following lecture/lab pairs: BIOL 101/111, BIOL 102/112, CHEM 151/161, CHEM 152/162, PHYS 221/271, PHYS 222/272
** CRMJ 331, CRMJ 392, CSCI 490.
 ***GenEd Capstone
# CYBER OPERATIONS MAJOR

## Second Semester

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<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to Computer Science II</td>
<td>CSCI 202</td>
<td>3</td>
<td>(3,2)</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH 132</td>
<td>4</td>
<td>(4,0)</td>
</tr>
<tr>
<td>Modern Language</td>
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<td>102 1</td>
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## Sophomore Year

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<th>Code</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Structures and Algorithms</td>
<td>CSCI 223</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to Probability and Statistics</td>
<td>STAT 261</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Computer Networks and Internet</td>
<td>CSCI 317</td>
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<td>(3,0)</td>
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<tr>
<td>Database Design</td>
<td>CSCI 320</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>*Science (satisfies Strand science requirements)</td>
<td></td>
<td>4</td>
<td>(3,2)</td>
</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>0</td>
<td>(0,1)</td>
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## Junior Year

<table>
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<th>Course</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Malware Analysis</td>
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<tr>
<td>Advanced Cybersecurity</td>
<td>CSCI 427</td>
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<td>Applied Cryptography</td>
<td>MATH 302</td>
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<td>Technical Writing and Communication</td>
<td>COMM 260</td>
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<td>(3,0)</td>
</tr>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>or 1st Year Advanced ROTC</td>
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## Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Cyber Forensics</td>
<td>CSCI 411</td>
<td>3</td>
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<tr>
<td>Senior Research Project</td>
<td>CSCI 499</td>
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<td>(3,0)</td>
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<td>Digital Systems Engineering</td>
<td>ELEC 330</td>
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<td>(3,0)</td>
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<td>(3,0)</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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</tbody>
</table>
Department of Health and Human Performance

Department Head: Bott
Professors: Garner
Associate Professor: Bornstein, Bott
Assistant Professors: Bellon, Imam, Sacko, Sole, Triantafyllidis, Yee
Instructors: Bogle, Jackson, Hamil

The purpose of the Department of Health and Human Performance (HHP) is to provide an exemplary educational environment and experiences leading to acquisition of skills, knowledge, and dispositions within the domains and scientific understanding and application of human movement and healthful living. Competence within each of these areas contributes to preparation of principled leaders for positions of leadership within their respective fields.

Required for Health & Human Performance

HHP program are designed to provide an exemplary educational environment and experiences which contribute to an improved quality of life for the student. The program offers basic instruction in adult and lifetime physical fitness, healthful living, physical activities and recreational sports of immediate and lasting value to each student.

All undergraduates must successfully complete RPED 260.

RPED 260  *Physical Fitness, Resiliency, & Wellness*  Three Credit Hours

The purpose of this course is to provide cadets with the knowledge, skills, and attitudes to achieve and maintain physical and mental strength and endurance necessary to attain optimum functioning of their bodies and minds. The curriculum includes personal health and wellness, drug and substance use and abuse awareness, nutrition, stress management techniques, and sexual health education.

Lecture: three hours.

All cadets must successfully complete two different activity (100 level) RPED courses. Cadets may elect any two activities from the following courses.

RPED 103  *Beginning Swimming*  0 Credit Hours

A beginning swimming course designed for adults who are classified as non-swimmers or poor swimmers.

RPED 105  *Intermediate Swimming and Emergency Water Safety*  0 Credit Hours

Prerequisite: Swimming proficiency

A course consisting of instruction in five basic swimming strokes, self-rescue, basic lifesaving techniques and emergency water safety.
RPED 110  Individualized Physical Education  0 Credit Hours
A course providing an individualized approach to health-related aspects of physical fitness, including, but not limited to, cardiorespiratory and muscular endurance, strength, flexibility and body composition.

RPED 111  Beginning Racquetball  0 Credit Hours
A course designed to provide instruction in rules, skills and strategies of playing racquetball.

RPED 113  First Aid and CPR (ARC)  0 Credit Hours
A certification course of the American Red Cross for community first aid and cardiopulmonary resuscitation for adults, children and infants.

RPED 114  Lifeguarding (ARC)  0 Credit Hours
Prerequisites: Swimming proficiency
Corequisite: RPED 117
A certification course designed to teach skills and knowledge required to properly assume responsibilities of a lifeguard. Completion of this course may result in ARC lifeguarding certification.

RPED 115  Water Safety Instruction (ARC)  0 Credit Hours
Prerequisites: Swimming proficiency
An instructor course which may result in ARC certification for all levels of swimming instruction.

RPED 116  Lifeguard Instructor (ARC)  0 Credit Hours
Prerequisites: RPED 114 or a current ARC lifeguard training certificate.
An instructor course which may result in ARC certification for water safety and lifeguarding instruction.

RPED 117  CPR for the Professional Rescuer  0 Credit Hours
Corequisite: RPED 114
A certification course of the American Red Cross for lifeguards, fire officers, police officers, and others with a duty to provide care. Includes adult, child, infant, two-person and bag valve mask CPR.

RPED 122  Archery  0 Credit Hours
A course which provides instruction in basic knowledge and skills of target archery.

RPED 124  Beginning Golf  0 Credit Hours
A course which teaches grip, stance, and swing development, as well as knowledge of rules and strategy of recreational and competitive golf.

RPED 126  Judo  0 Credit Hours
A comprehensive coverage of history, dojo etiquette, ukemi (break-fall), nagewaza (throwing), and ne-waza (grappling) techniques.
RPED 127  *Skin and SCUBA Diving I*  
Prerequisite: Swimming proficiency  
Basic techniques of using mask and snorkel are taught. Material is presented to provide information related to underwater physics and physiology. This course will prepare a student for confined water SCUBA work. This is not a certification course, but a prerequisite that may lead to eventual PADI certification.

RPED 128  *Skin and SCUBA Diving II*  
Prerequisite: RPED 127 or completion of PADI’s five academic modules and approval of instructor.  
Confined water practice using SCUBA equipment. Completion of this course may result in a PADI Referral certificate for open water certification dives.

RPED 129  *Beginning Tennis*  
A course which emphasizes grip, stance, footwork, and basic movement patterns in executing serve and ground strokes and stresses knowledge of rules and etiquette.

RPED 130  *Weight Training*  
A course which stresses proper lifting techniques as well as knowledge concerning the relationship between strength training and various sports programs.

RPED 134  *Jogging*  
A course which presents jogging as a means of developing and maintaining a satisfactory level of cardiorespiratory fitness.

RPED 135  *Intermediate Tennis*  
Prerequisite: RPED 129 or equivalent.  
This course requires minimal skills (serve, forehand, and backhand ground strokes) and presents more advanced skills such as lob, smash and net play in addition to advanced strategy in singles and doubles play.

RPED 136  *Sailing and Canoeing*  
Prerequisite: Swimming proficiency  
A course which includes basic knowledge and skill concerning small sailing craft and canoes.

RPED 137  *Beginning Kayaking*  
A course designed to teach basics of flat water kayaking for lakes and oceans.

RPED 140  *Sigma Delta Psi*  
A course designed to prepare a student for thirteen sports/fitness skill tests required for membership in this national athletic fraternity.

RPED 142  *Orienteering*  
A presentation of skills for cross-country running with map and compass.
RPED 148  Beginning Yoga  
A course presenting basic philosophy, positions and breathing techniques of 
yoga. Emphasis is also placed on meditation and positive thinking as means to 
reduce stress and increase concentration.

RPED 149  Taekwon-Do  
Taekwon-Do is a Mixed Martial Art designed in the 1950s for the Korean 
Army. This is an introductory course teaching basic kicks and punches on a 
heavy bag and pads, take downs, and no gi self defense standing up and on 
the ground.

RPED 150  Kendo  
An introduction to Kendo, or Japanese fencing, requires rules, basic tech-
niques, and customs and courtesies of Kendo be learned. The first three Nihon 
Kendo Kata will also be taught. Students are expected to learn proper care 
and use of kendo equipment and clothing. Students successfully completing 
the course will have begun learning the U.S. Kendo Federation requirements 
for the rank of first kyu.

RPED 151  Aerobic Activities  
This course will cover rhythmic and step aerobic techniques. Students will 
study techniques used in both systems as well as health issues in weight reduc-
tion and physical fitness development.

RPED 155  Special Topics  
These courses allow students to take activity courses not offered on a regu-
lar basis. Examples include cardio fitness, pilates, Jujitsu, boating and boating 
safety and advanced kayaking.

Degree Options within Health and Human Performance

The purpose of the professional preparation program is to prepare undergradu-
ate students for selected involvement within the broad fields of health and hu-
man performance while maintaining reasonable flexibility for adaptation beyond 
the specialty area. This is accomplished by offering professional opportunities 
within three degrees: B.S. in Physical Education - Teaching, B.S. in Exercise 
Science, and B.S. in Sport Management.

B.S. in Exercise Science

The B.S. in Exercise Science is designed to provide an exemplary educational 
environment and experiences leading to acquisition of skills, knowledge and 
attitudes within scientific understanding and application of human movement 
and performance. Competence within these areas contributes to preparing our 
students for graduate education and leadership positions in health and allied 
health professions, public and private health agencies and the wellness and 
fitness industry.
All undergraduate courses taken at The Citadel with a subject prefix of EXSC, HLED, PESM, PHED, PSYC, and RPED will count towards the major GPA.

A student in the Exercise Science degree must complete the curriculum which includes four (4) of the following approved elective courses:

- BIOL 102 General Biology II
- BIOL 209 Environmental Science
- BIOL 290 Microbiology
- BIOL 308 Genetics
- CHEM 103 Introduction to Chemistry I
- CHEM 104 Introduction to Chemistry II
- CHEM 151 General Chemistry I
- CHEM 152 General Chemistry II
- CHEM 207 Organic Chemistry I
- CHEM 208 Organic Chemistry II
- CHEM 409 Biochemistry I
- CHEM 410 Biochemistry II
- CSCI 210 Microcomputer Applications
- HLED 310 Introduction to Gerontology
- HLED 403 Human Sexuality
- HLED 404 Public Health
- HLED 408 Health and Epidemiology
- HLED 410 Consumer Health
- HLED 410/411 Special Topics
- PHED 408 Sport Psychology
- PHED 411 Special Topics in Health, Exercise, Sport Science, and Physical Education
- EXSC 315 Strength and Conditioning I
- EXSC 317 Medical Terminology
- EXSC 411 Special Topics for Exercise Science
- EXSC 412 Strength and Conditioning II
- EXSC 420 Research Project
- PHYS 203 College Physics I
- PHYS 204 College Physics II
- PHYS 221 Physics with Calculus I
- PHYS 222 Physics with Calculus II
- PSYC 201 General Psychology
- PSYC 304 Abnormal Psychology
- PSYC 306 Theories of Personality
- PSYC 404 Industrial/Organizational Psychology
- PSYC 201 General Psychology
- SOCI 201 Introduction to Sociology
- STAT 160 Statistical Methods
- NURS 200 Introduction to Nursing
- NURS 201 Health Assessment
- NURS 301 Adult Health I
B. S. in Physical Education (Teaching)

The teaching track is designed to provide an exemplary educational environment and experiences leading to acquisition of skills, knowledge and dispositions within domains for human movement, growth and development of individuals; and application of physical, biological and behavioral sciences to the teaching/learning process. Competence within each of these areas contributes to development of our students in accordance with state and national standards, and prepares them for leadership positions in schools. The curriculum for prospective physical education teachers is designed to build progressively upon meaningful concepts and experiences acquired within other disciplines as well as those unique to the profession. In addition, competencies identified with successful teaching methodology are an integral part of the curricular content.

Assignment to Pre-Physical Education (Teaching Track)

Students interested in teaching physical education at K-12 grade levels are first assigned as Pre-Physical Education (Teaching Track). At this level of admission, the student’s responsibility is to successfully complete all three parts of the PRAXIS Core examination and to ensure official records of passing PRAXIS Core scores are on file at The Citadel. Successful completion of this test of basic skills in reading, writing, and mathematics is a requirement for admission to Physical Education (Teaching Track) major, and this requirement should be met by end of sophomore year. In addition, a student is responsible to make certain, with counsel of his or her advisor, to follow the appropriate curriculum. A student should also be aware of the importance of maintaining a cumulative grade point ratio of at least 2.750 to allow admission to the Physical Education (Teaching Track) major.

All undergraduate courses taken at The Citadel with a subject prefix of EDUC, EXSC, HLED, PHED, and RPED will count towards the major GPA.

Admission to Physical Education (Teaching Track) Major

To be admitted to the Physical Education (Teaching Track) Major, a student enrolled in Pre-Physical Education (Teaching Track) must have the support of his or her advisor relative to suitability and interest in teacher education and must also have:

1. Official records of passing scores on all three parts of PRAXIS Core exams on file at The Citadel, or a score of 1650 on the new SAT (1100 on the old SAT), or 24 on ACT;
2. Professional dispositions evaluation;
3. Maintained a cumulative Grade Point Ratio of 2.750 or higher on at least 45 credit hours of coursework taken at The Citadel;
4. Successfully completed PHED 101, EXSC 200, PHED 201, PHED 335 and PHED 350 with a grade of “C” or better.

Students who have not met all these requirements by end of their sophomore year will not be permitted to register for upper-level courses in the major and will be encouraged to consider another major. Students may contact the Department Head to request permission to continue in the program when there is a realistic plan to achieve the minimum G.P.A requirement (e.g., grade replacement).

The Citadel School of Education Guidelines and Policies regarding transition points and common assessments must be met.
Admission to the Internship in Teaching (PHED 499)

Students must make formal application for admission no later than May 1st of the previous academic year for admission to the spring internship in teaching. This internship is not normally offered to students in fall semesters. This application will be reviewed by faculty of the Department of Health and Human Performance and will include, among other things, recommendations from professors in completed professional education courses and an evaluation by the student’s advisor regarding the student’s suitability and interest in teacher education. In addition, a student must have:

1. Completed (with a GPA of at least 2.750) all required coursework except PHED 421 and 499;
2. Completed the following professional education courses with the cumulative GPA of at least 2.750: EDUC 202, 206, 301, 306, 307; PHED 101, 200, 201, 203, 235, 300, 303, 305, 314, 319, 321, 335, 350, 433, 460; and HLED 407;
3. Successfully completed a minimum of 100 field experience hours;
4. On file at The Citadel official records of the appropriate PRAXIS II test score(s).

The Director of Teacher Education and HHP Department Head will be informed of results of this review and will send official notice of admission or rejection to the student. In the absence of significant extenuating circumstances, a student not eligible for the Internship in Teaching will be required to change majors.

Graduation Requirements

To meet graduation requirements, the Physical Education (Teaching Track) major must complete all requirements of the course of study and must have earned a GPA of at least 2.750 on each of the following: all cumulative coursework and all professional education courses. In addition, passing scores on the appropriate PRAXIS II and Principles of Learning and Teaching (PLT) exams must be on file at The Citadel.

Completion of curricular requirements may result in licensure by the South Carolina Department of Education to teach physical education in grades K-12. A grade of “C” or better in PHED 499 is necessary to qualify for teacher certification.

Additional licensure in health education may be pursued through 12 hours of required courses (*) and 12 hours of electives selected from among the following offerings. Successful completion of the health specialty of the Praxis II and Principles of Learning and Teaching (PLT) exam is also required, and official results must be on file at The Citadel.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 217 Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 218 Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>HLED 400 First Aid/Emergency Care</td>
<td>3</td>
</tr>
<tr>
<td>HLED 407 Methods of Teaching School Health Education</td>
<td>12</td>
</tr>
</tbody>
</table>
Approved Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLED 302</td>
<td>Drug and Substance Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HLED 401</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HLED 403</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HLED 404</td>
<td>Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HLED 408</td>
<td>Health and Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HLED 410</td>
<td>Consumer Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Successful completion of RPED 260 (Physical Fitness, Resiliency, and Wellness) will be credited as one approved elective course.

**B.S. Sport Management**

The mission of sport management program is to educate and cultivate strong-minded leaders to master sport of positive changes in our modern society.

Our mission aligns with the core values of health, integrity, leadership, respect, and service. The program advances the education for our students through the continuous pursuit of teaching, research, and service. Our program's innovative curriculum leads students to the acquisition of skills, knowledge, and competence for graduate-level education and leadership positions in professions of the global sport industry, such as interscholastic and intercollegiate athletics, recreation, amateur, and professional sport organizations.

Students must complete the academic curriculum and select four (4) of the following courses as approved electives.

SMGT 301  Sport Governance and Politics
SMGT 302  Sport Communication
SMGT 402  Sport Promotion and Sales Management
EXSC 200  Motor Learning and Motor Development*
EXCS 202  Care and Prevention of Athletes*
EXCS 315  Strength and Conditioning Techniques*
EXCS 412  Fundamentals of Personal Training
PHED 201  Introduction in PE and Coaching*
PHED 335  Advanced Performance and Athlete Development: Team Sports*
PHED 350  Advanced Performance and Athlete Development: Individual and Dual Sports*
HLED 401  Nutrition*
HLED 402  Sport Nutrition
ACCT 205  Accounting for Entrepreneurship and Small Business***
MGMT 431  International Business**
ENTR 301  Principled Entrepreneurship and the Free Enterprise System***
MKTG 302  Personal Branding and Networking
MGMT 303  Management and Organizational Behaviour**

1*Minor in Sport Coaching: Total Credit Hours Required: 15 (the detailed curriculum is provided after the Minor in Sport Management program description)
**Minor in Business Administration: Total Credit Hours Required: 12
***Minor in Entrepreneurship: Total Credit Hours Required: 12
****Minor in Psychology: Total Credit Hours Required: 12
ENTR 401 Small Business Management-Entrepreneurship***
ENTR 411 Technology and Entrepreneurship***
ENTR 421 Applying Innovation***
PSYC 201 General Psychology****

Students must complete the academic curriculum and select four (4) of the following courses as general electives.

MKTG 301 Marketing Principles**
BLAW 303 Legal and Ethical Environment of Business**
HLED 302 Drug and Substance Abuse
HLED 403 Human Sexuality
HLED 404 Public Health
HLED 410 Consumer Health
HLED 411 Special Topics in HESS
PHED 301 Adapted Physical Education and Sport

**Minor in Sport Management**

**Objectives:**
The minor in Sport Management is designed to provide a student the opportunity to learn about the unique role of sport in the society, and to assist them to develop management skills in a wide range of the sport operations, such as sport events, facility management, administration and leadership abilities in sport organizations.

**Competencies, Knowledge or Skills to be Achieved:**
By completing the minor in sport management, students will acquire the essential knowledge and build the practical skills required for a competitive career in the business of sport. Examples of future career opportunities including but not limited to interscholastic and intercollegiate athletics, amateur and professional sport organizations.

**Structure of the Minor:**

1. Required Courses: (9 credit hours):
   - SMGT 201 Introduction to Sport Management
   - SMGT 202 Sport and Society
   - SMGT 405 Sport Event Management: From Theory to Practice

2. Choose two (2) elective courses from the list below (6 credit hours):
   - SMGT 301 Sport Governance and Politics
   - SMGT 302 Sport Communication
   - SMGT 303 Sport Facility and Risk Management
   - SMGT 304 Sport Marketing
   - SMGT 401 Introduction to Sport Law
   - SMGT 402 Sport Promotion and Sales Management
   - PHED 406 Directed Field Experience (permission of instructor required)

**Total Credit Hours Required:** 15, at least 9 of which must be completed at The Citadel.
Prerequisites must be met. Please see the description of prerequisite requirements.
Minor in Sport Coaching

Objectives:
The minor in sport coaching is designed to develop the skills, knowledge and leadership qualities necessary to become an effective coach at the youth and interscholastic levels. Focus will be on content knowledge, teaching and communication of skills and tactics, developing a sound coaching philosophy, safe and appropriate practice in a physically active environment, and qualities for successful leadership.

Competencies, Knowledge, or Skills to be Achieved:
The minor in sport coaching provides students in all majors the opportunity to pursue their interest in coaching, sport, and working with youth in a physically active environment. Students will gain knowledge of how skilled performance is learned and how technology can be used to improve performance in a variety of sports. Students will be able to demonstrate and explain a variety of sport skills and tactics, develop practice plans, and apply principles and techniques of strength and conditioning.

Structure of the Minor:
Required Courses: (12 credit hours)
EXSC 200 Motor Learning and Motor Development
PHED 201 Introduction to PE and Coaching
PHED 350 Advanced Performance and Athlete Development Indy and Dual Sports
PHED 335 Advances Performance and Athlete Development Part 2-Team Sports
Choose one elective from the list below:
HLED 401 Nutrition
EXSC 202 Care and Prevention of Athletes
EXSC 315 Strength and Conditioning I

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel

Health and Human Performance Course Descriptions

EXSC 200 Motor Development and Motor Learning Three Credit Hours
Instruction will focus on the study of sequential changes and characteristics of physical growth and development related to physical activity across the lifespan. Consideration of factors associated with individual differences in attaining motor proficiency during childhood, adolescence, and adulthood will be examined. A field experience component of a minimum of 5 hours is required.
Lecture: three hours

EXSC 202 Care and Prevention of Athletic Injuries Three Credit Hours
Discussion, demonstration, and application of skills and procedures utilized in athletic training.
Lecture: three hours
EXSC 305  *Measurement and Evaluation*  Three Credit Hours
A course including test selection and administration, analysis and interpretation of data for various cognitive, affective and psychomotor tests commonly associated with health, exercise, sport, and physical education.
Lecture: three hours

EXSC 314  *Biomechanical Kinesiology*  Three Credit Hours
Prerequisites or corequisites: BIOL 217, BIOL 218, BIOL 227, and BIOL 228
The anatomical and mechanical analysis of functional posture and motor performance for the purpose of improving teaching and coaching effectiveness.
Lecture: three hours

EXSC 315  *Strength and Conditioning I*  Three Credit Hours
This course introduces students to the fundamental training principles used to enhance human performance. Acute and chronic responses to exercise training, as well as proper execution of training techniques will be studied in detail.
Lecture: three hours

EXSC 317  *Medical Terminology*  Three Credit Hours
The purpose of this course will be to introduce students to medical terminology as it relates to such areas as the skeletal, muscular, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, nervous, skin, endocrine, and reproductive systems.
Lecture: three hours

EXSC 319  *Physiology of Exercise I*  Three Credit Hours
Prerequisites: BIOL 317 or BIOL 318
An in-depth study of effects of exercise upon components of physical fitness, including strength, muscular endurance, flexibility and cardiovascular-respiratory endurance.
Lecture: three hours.

EXSC 320  *Physiology of Exercise II*  Three Credit Hours
Prerequisite: EXSC 319
This course will build upon the fundamentals of *Physiology of Exercise I*, developed during previous Health and Human Performance coursework. The purpose of this course is to provide a more in-depth examination of the major content areas of the exercise physiology discipline including, but not limited to, the following topics: cardiovascular adaptations to exercise training, skeletal muscle adaptations to training, exercise endocrinology, and environmental exercise physiology.
Lecture: three hours.

EXSC 329  *Physiology of Exercise I Lab*  One Credit Hour
Prerequisites: BIOL 217/227 or BIOL 218/228
Corequisite: EXSC 319
This course will provide the laboratory component associated with EXSC 319, *Physiology of Exercise I*.
Lab: two hours.
EXSC 403  Exercise Testing and Prescription  Three Credit Hours
   Prerequisites: EXSC 319, EXSC 320 and EXSC 329
   Corequisite: EXSC 320
   Instruction will focus on the principles of exercise testing and assessment of fitness. Focus will also be placed on the development of an exercise prescription to enhance fitness, improve health, and reduce risk factors in healthy and diseased populations, across the lifespan.
   Lecture: three hours

EXSC 411  Special Topics in Health, Exercise, and Sport Science  Three Credit Hours
   A course designed for specialized study of a current topic in fields of health, exercise, and sport science.
   Lecture: three hours

EXSC 412  Strength and Conditioning II  Three Credit Hours
   This course introduces students to the fundamental training principles used to enhance human performance. Acute and chronic responses to exercise training, as well as proper execution of training techniques will be studied in detail.
   Lecture: three hours

EXSC 420  Senior Research Project  Three Credit Hours
   A research problem conducted as an independent study. Topic and procedure for this study must be approved by department faculty.

EXSC 421  Senior Seminar in Health, Exercise, Sport Science, and Physical Education  One Credit Hour
   A seminar conducted for the purpose of reviewing subject matter from all courses in the health, exercise, and sport science curriculum. An opportunity is provided to apply what has been learned to a written project and oral presentation requiring critical thinking, creativity, and problem solving.

PHED 101  Introduction to Health and Human Performance  Three Credit Hours
   A study of philosophies, aims, objectives and principles of health, exercise, sport science, and physical education. Professional development and career opportunities are also emphasized.
   Lecture: three hours

PHED 201  Introduction to Teaching Physical Education and Coaching  Three Credit Hours
   This course begins with an exploration of the theoretical underpinnings that promote motor learning. The course develops student awareness of the many variables that affect the ability for students and athletes to improve performance or technique. Specifically, the course seeks to develop practical skills in planning, task presentations, demonstrations, content development, observational analysis, and feedback.
   A 10-hour field experience is required for this course.
   Lecture: three hours
PHED 303  *Adapted Physical Education And Sport*  
Three Credit Hours

A course to prepare students for accommodating persons with disabilities in situations involving access to facilities and equipment, physical fitness assessment and programming, sports participation and competition, and as a team member within various professional settings.

A 5-hour field experience is required for this course.

Lecture: three hours

PHED 335  *Advanced Performance and Athlete Development: Team Sports*  
Three Credit Hours

The course emphasizes methods of teaching and/or coaching variety of sports including popular invasion games and team sports. The examination of theoretical models sets the stage for the development of best practice in terms of athlete development and successful coaching. Topics include coaching for character, managing athletes, tactical coaching, observational analysis of performance, and physical training basics.

Lecture: three hours

A 10 hour field experience is required for this course.

PHED 350  *Advanced Performance and Athlete Development: Individual and Dual Sports*  
Three Credit Hours

The course emphasizes methods of teaching and/or coaching variety of sports including net/wall games and individual/dual sports. The examination of theoretical models sets the stage for the development of best practice in terms of athlete development and successful coaching. Topics include developing a coaching philosophy, effective communication strategies, motivation, and principles of teaching.

Lecture: three hours

A 10 hour field experience is required for this course.

PHED 404  *Administration of Health, Exercise, Sport Science, and Physical Education*  
Three Credit Hours

A study of administrative philosophies and procedures related to health, exercise, sport science, and physical education.

Lecture: three hours

PHED 406  *Directed Field Experience*  
Three Credit Hours

A controlled exposure to professional experiences in a selected area, e.g. athletic coaching, athletic training, physical therapy, intramurals, recreation, recreation therapy, sport business, and public health education.

A directed field experience component of a minimum of 100 hours is required.

PHED 408  *Introduction to Sport Psychology*  
Three Credit Hours

Analysis and interpretation of current research including maturation and development, learning theory, perception, personality, motivation and group dynamics related directly to sport, exercise, physical education, and competitive athletics.

Lecture: three hours
PHED 411  *Special Topics in Health, Exercise, Sport Science, and Physical Education*  
Three Credit Hours  
A course designed for specialized study of a current topic in fields of health, exercise, sport science, and physical education.  
Lecture: three hours

PHED 420  *Senior Research Project*  
Three Credit Hours  
A research problem conducted as an independent study. Topic and procedure for this study must be approved by department faculty.

PHED 421  *Senior Seminar in Health, Exercise, Sport Science, and Physical Education*  
One Credit Hour  
A seminar conducted for the purpose of reviewing subject matter from all courses in the health, exercise, sport science, and physical education curriculum. An opportunity is provided to apply what has been learned to a written project and oral presentation requiring critical thinking, creativity, and problem solving.

PHED 433  *Elementary School Physical Education*  
Three Credit Hours  
Prerequisite: Admission to Physical Education Teaching Program; PHED 201  
Study of the progressively graded program of activities for elementary schools, grades K-5. Theoretical as well as practical material will be presented.  
A field experience component of a minimum of 15 hours is required.  
Lecture: three hours

PHED 460  *Secondary Physical Education Training Methods*  
Three Credit Hours  
Prerequisite: Admission to Physical Education Teaching Program and PHED 201.  
The course emphasizes methods of teaching that are consistent with the intent of the national and state standards. Students will be able to design and implement a program geared towards the achievement of valued health outcomes such as increased physical activity levels. Topics include health-related fitness assessment, personal program development, and instruction based on lifetime activities.  
A 15-hour field experience is required for this course.  
Lecture: three hours

PHED 499  *Internship in Teaching*  
Twelve Credit Hours  
Prerequisite: 100 hours field experience (minimum).  
Please refer to requirements for admission to the Internship in Teaching (PHED 499).  
A requirement for certification, observation and teaching in approved schools under approved supervising teachers and supervision by college instructor. Assignment only in major teaching field. All students must provide their own transportation.  
A minimum of one placement is required in a public school (elementary, middle, or high school). The internship requires a minimum of 60 full days in the public school. A formal application for admission to the spring teaching internship must be made no later than 1 May of the previous academic year.
HLED 302  
*Drug and Substance Abuse*  
Three Credit Hours  
A study of characteristics of commonly abused drugs and substances and reasons for use and abuse.  
Lecture: three hours

HLED 310  
*Introduction to Gerontology*  
Four Credit Hours  
This course addresses both the pragmatic and theoretical issues of aging. Interdisciplinary methods of social, biological, and medical sciences are utilized to examine and define the aging process. Family and societal relationships, ethnic and multicultural, economic and political concerns of aging are also addressed.  
Lecture: three hours; laboratory: one hour

HLED 400  
*First Aid and Emergency Care*  
Three Credit Hours  
Prerequisite: RPED 113  
A comprehensive coverage of safety concepts and accident prevention as well as presentation of specific topics including cursory examination, wounds, traumatic shock, asphyxia, cardiac arrest, burns, toxins; and bone, joint and muscle injuries.  
For health, exercise, and sport science majors only or with department head approval.  
Lecture: three hours

HLED 401  
*Nutrition*  
Three Credit Hours  
A detailed study of primary nutrients essential to health with attention given to specific needs from infancy through adulthood. Current theories and practices related to physical and intellectual performances are also investigated. Contemporary topics are presented, including degenerative diseases, food-borne diseases, fad dieting, food additives, and health foods.  
Lecture: three hours

HLED 402  
*Sport Nutrition*  
Three Credit Hours  
Prerequisite: HLED 401 or Permission of Instructor  
The course examines the interaction of sport and exercise and nutrition. The purpose of this course is to provide an in-depth examination of specific areas of nutrition as they relate to exercise and sport and include such topics as: bioenergetics, macro and micronutrients, water and temperature regulation, body weight regulation and body composition, and food drugs and supplements.  
Lecture: three hours

HLED 403  
*Human Sexuality*  
Three Credit Hours  
A comprehensive study of all facets of human sexuality. A course designed to prepare potential health educators in curriculum design for all grade levels, teaching methods, teaching styles, and evaluation methods.  
Lecture: three hours

HLED 404  
*Public Health*  
Three Credit Hours  
Analysis of public health trends, services, funding, and organization of local, state and federal agencies.  
Lecture: three hours
HLED 406  **The School Health Program**  Three Credit Hours
A study of the total school health program and roles of health and physical education within the program.
Lecture: three hours

HLED 407  **Advocacy and Accountability in Public Health and Education**  Three Credit Hours
A review of curricula available for teaching health and physical education in grades K-12. Focus is on constructing and implementing developmentally appropriate movement and fitness experiences for elementary/middle/secondary school learners from various backgrounds. A review of curricular models available for teaching health and physical education including curriculum.
Lecture: three hours
A five hour field experience is required for this course.

HLED 408  **Health and Epidemiology**  Three Credit Hours
A course designed to acquaint the potential health educator or public health worker with the science of epidemiology and techniques used in the study of disease and non-disease conditions.
Lecture: three hours

HLED 410  **Consumer Health**  Three Credit Hours
A course designed to provide factual and scientifically-based information about medical goods and services as well as development of consumer skills including decision-making, values clarification, assertiveness, bargaining, bidding, data collection, and data analysis.
Lecture: three hours

HLED 411  **Special Topics in Health, Exercise, and Sport Science**  Three Credit Hours
A course designed for specialized study of a current topic in the fields of health, exercise, and sport science.

**Sport Management Courses**

SMGT 201  **Introduction to Sport Management**  Three Credit Hours
This course introduces the sport management profession and its academic field. The primary focus is on the sport business industry, including professional sport, amateur and community sport, for-profit and non-profit sport participation, sporting goods, and services. It studies the orientation of the sport management field with emphasis on principles and practice of sport, as well as a foundational introduction to training, careers, and opportunities in the professional of sport manager.

SMGT 202  **Sport and Society**  Three Credit Hours
Sport and society is a course that provides students a close examination of the relationship between sport and society. This course introduces the principles and applications of sport from a sociological perspective, grounded in the powerful culture of the sport globally, the diversity and inclusion of sport organizations at the youth, collegiate, and professional levels. Assessment on the intersection of ethics and values will be explored across social class and sport, race and sport, gender and sport, media and sport, natural environment and sport, violence, and sport, globalization, and sport.
SMGT 301  *Sport Governance and Politics*  Three Credit Hours
This course introduces the contemporary governance structures and political schemes in sport. Focusing on the decision-making processes of sport organizations, students will learn to analyze studies in sport cases to debate current issues in the sport world, and to argue their opinion with the use of evidence and develop policies for optimizing the direction of the sport in the modern society.

SMGT 302  *Sport Communications*  Three Credit Hours
This course focuses upon the development of skills essential for sport communication professionals, including writing and public speaking, interviewing, monitoring interactions across social media, public and community relations, technology, crises, and integrating strategic communication schemes in sport organizations.

SMGT 303  *Sport Facility and Risk Management*  Three Credit Hours
This course introduces students to the principles and practice of planning, designing, operating, and assessing sport facilities. It emphasizes the organizational theories, including risk management, liability, legal and ethical implications, personnel, and environmental resources management. Also, the course examines the contemporary issues related to the construction and operations of indoor stadiums and arenas, athletic field complexes, risk and safety systems that protect visitors, spectators, athletes, staff, and the sport facility.

SMGT 304  *Sport Marketing*  Three Credit Hours
This course covers the various aspects of sport marketing and their application in the sport industry. Specifically, it emphases the intercollegiate, professional and international sport market. It is intended to provide the two unique perspectives or thrusts of sport marketing, the marketing of sport and marketing through sport. This course introduces students, the foundation for advanced study and practice in sport marketing, sport consumer behavior, sport branding, and sponsorship.

SMGT 401  *Introduction to Sport Law*  Three Credit Hours
This course provides an introduction to sport law, the liability issues as applied to sport and problems confronting athletes, coaches, and sport organizations. The course intends to cover tort, sport, agency, antitrust-labor, contract, equal opportunity, and constitutional laws.

SMGT 402  *Sport Promotion and Sales Management*  Three Credit Hours
Sport promotion and sales management offer students advanced skills of developing, managing, and executing sport sponsorship and ticket sales plans, promotional campaigns, and e-commerce tools and sport brands. Through this course, students will learn how to apply the fundamental concepts, principles and theories of the promotional mix in the sport industry effectively.
PESM 404  *Leadership in Sport Organization*  Three Credit Hours

This course covers the leadership philosophies, the decision-making processes, the ethical considerations, and the policy development practices in the sport organizations.

SMGT 405  *Sport Event Management: From Theory to Practice*  Three Credit Hours

This course examines the strategies and tactics required to develop, plan, organize, direct, implement, control, and evaluate sport events successfully. This course offers students the opportunity to learn about the fundamental principles used in event management and to cultivate the knowledge and required skills on where, when, and how sport events are executed. Also, students will learn how to design sport event plans and manage the operations of small, major, and mega-scale sport events-emphasizing advanced practices involved in sport events, areas such as budgeting, marketing, public, community and media relations, and sustainability.

SMGT 421  *Senior Seminar in Sport Management*  One Credit Hour

Co-prerequisite: SMGT 499

This course is a seminar for senior students in the Sport Management program. Students will have the opportunity to develop further and optimize their Resumes, Cover letters, and Communication Skills for their job application process on the sport industry. Additionally, students will rehearse live and video interviews through seminar sections to gain knowledge and confidence once they will have to participate in real job interviews with professionals. As a co-requisite of SMGT 499, this seminar enhances the quality of the students as interns and prepares them for the near future as young professionals.

SMGT 499  *Internship in Sport Management*  Nine Credit Hours

Prerequisites: Cadet Classification of at least “2B”, successful completion of PHED 406, and co-requisite with SMGT 421.

This is the capstone course of the Sport Management program. Students will work with a sport organization as interns for a minimum of 400 hours. This internship provides students the ultimate experience with working behind the scenes with professionals of the sport industry.
HEALTH AND HUMAN PERFORMANCE
B.S. in Exercise Science
First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Year Experience</td>
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<td>Freshman Seminar</td>
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<td>Freshman Linked Writing Intensive</td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>(3,0)</td>
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<tr>
<td>Introduction to Health, Exercise, Sport Science and Physical Education</td>
<td>PHED 101 3</td>
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<tr>
<td>Statistical Methods</td>
<td>STAT 160 3</td>
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SOPHOMORE YEAR

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<th>Course Description</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
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<tr>
<td>(211 may be taken either semester)</td>
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<tr>
<td>Human Anatomy and Physiology I</td>
<td>BIOL 217 3</td>
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<td>Human Anatomy and Physiology I Laboratory</td>
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JUNIOR YEAR

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<tr>
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SENIOR YEAR

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<tr>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
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*Represents semester credit, lecture, and laboratory hours, in that order.

**Approved Electives are determined by the degree selected, Exercise Science or Sport Management. A complete list of Approved Electives is available in the section of this catalog on Department of Health and Human Performance.
HEALTH AND HUMAN PERFORMANCE  
B.S. in Exercise Science  
Second Semester

**FRESHMAN YEAR**

<table>
<thead>
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<th>Course Description</th>
<th>Department</th>
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<tbody>
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<td>Nutrition</td>
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**SOPHOMORE YEAR**

<table>
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<td>Care and Prevention of Athletic Injuries</td>
<td>EXSC</td>
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<td>CHEM/PHYS II</td>
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<td>Developmental Psychology</td>
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**JUNIOR YEAR**

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<thead>
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<td>COMM</td>
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<td>Physiology of Exercise II</td>
<td>EXSC</td>
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<td>Exercise Testing &amp; Prescription</td>
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<td>First Aid and CPR</td>
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**SENIOR YEAR**

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<tr>
<th>Course Description</th>
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<tr>
<td>Accommodating Persons with Disabilities within Sport and Physical Activity</td>
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<td>Drug and Substance Abuse</td>
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<tr>
<td>Senior Seminar in Health, Exercise, Sport Science, and Physical Education</td>
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<td>2nd Year Advanced ROTC</td>
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REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
# HEALTH AND HUMAN PERFORMANCE
## B.S. in Sport Management
### First Semester

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<tr>
<th>Requirement</th>
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<td>First Year Experience</td>
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<td>Freshman Seminar</td>
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**FRESHMAN YEAR**

### Sophomore Year

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<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
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<tr>
<td>Introduction to Sport Management</td>
<td>PESM 201</td>
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### Junior Year

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<td>Junior Ethics Enrichment Experience</td>
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<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<tr>
<td>Principles of Marketing</td>
<td>MKTG 301</td>
<td>3</td>
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<tr>
<td>Governance of Sport</td>
<td>PESM 301</td>
<td>3</td>
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<tr>
<td>Required Physical Fitness</td>
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<td>0</td>
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### Senior Year

<table>
<thead>
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<th>Requirement</th>
<th>Course</th>
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<td>Senior Leadership Integration Seminar</td>
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<td>**Approved Elective</td>
<td>SCSS 30x</td>
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<tr>
<td>Leadership in Health, Exercise, and</td>
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<tr>
<td>Sport Science Organizations</td>
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<td>Event Management</td>
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<td>Directed Field Experience</td>
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<td>Required Physical Fitness</td>
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**SOPHOMORE YEAR**

### Sophomore Year

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<tr>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
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<tr>
<td>Principles of Financial Accounting</td>
<td>ACCT 201</td>
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<td>Introduction to Sport Management</td>
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**JUNIOR YEAR**

### Junior Year

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<td>Leadership in Organizations</td>
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<td>Principles of Marketing</td>
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<td>Governance of Sport</td>
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<td>Required Physical Fitness</td>
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**SENIOR YEAR**

### Senior Year

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<th>Course</th>
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<tr>
<td>Leadership in Health, Exercise, and</td>
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<td>Sport Science Organizations</td>
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<tr>
<td>Event Management</td>
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<td>Directed Field Experience</td>
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**Senior Year**

### Senior Year

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<tr>
<td>Required Physical Fitness</td>
<td>RPED 0</td>
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**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.
HEALTH AND HUMAN PERFORMANCE
B.S. in Sport Management
Second Semester

FRESHMAN YEAR
Physical Fitness, Resiliency, and Wellness... RPED 260 3 (3,0)
**Freshman Science ................................. 3 (3,0)
Statistical Methods .................................. STAT 160 3 (3,0)
Modern Language .................................... 3 (3,0)
Microcomputer Applications ....................... CSCI 110 3 (3,0)
1st Year Basic ROTC ................................. 102 1 (1,0)

SOPHOMORE YEAR
Communications in Business ....................... COMM 216 3 (3,0)
Principles of Microeconomics ...................... ECON 201 3 (3,0)
Social and Cultural Aspects of Sport ............. PESM 202 3 (3,0)
Strand Natural Science ............................. NTSS 30x 3 (3,0)
***Approved Elective ............................... 3 (3,0)
2nd Year Basic ROTC ............................... 3 (3,0)

JUNIOR YEAR
Strand Elective ....................................... ELES 30x 3 (3,0)
Management and Organizational Behavior ......... MGMT 303 3 (3,0)
Sport Facility Management ........................ PESM 303 3 (3,0)
Sport Marketing ....................................... PESM 304 3 (3,0)
Risk Management in Sport ........................ PESM 305 3 (3,0)
1st Year Advanced ROTC ............................ 3 (3,0)

SENIOR YEAR
Legal Aspects of Sport .............................. PESM 401 3 (3,0)
Internship in Sport Management .................. PESM 499 9
Senior Seminar in Health, Exercise, Sport Science, and Physical Education .......... PESM 421 1 (1,0)
2nd Year Advanced ROTC ............................

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## PRE-PHYSICAL EDUCATION
### Teaching Track
#### First Semester

**FRESHMAN YEAR**

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<tr>
<th>Course</th>
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<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td>General Biology I</td>
<td>BIOL 101</td>
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<tr>
<td>General Biology I Laboratory</td>
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<td>Health and Human Performance</td>
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<td>Required Physical Education</td>
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*Represents semester credit, lecture, and laboratory hours, in that order.

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership (211 may be taken either semester)</td>
<td>LDRS 201</td>
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<td>Human Anatomy and Physiology I</td>
<td>BIOL 217</td>
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<tr>
<td>I Laboratory</td>
<td>BIOL 227</td>
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<td>Advanced Performance and Athlete</td>
<td>PHED 350</td>
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<td>Adolescent Development</td>
<td>EDUC 206</td>
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<td>COMM 216</td>
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<td>Strand Social Science</td>
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*Represents semester credit, lecture, and laboratory hours, in that order.
PRE-PHYSICAL EDUCATION
Teaching Track
Second Semester

FRESHMAN YEAR

<table>
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<th>Course</th>
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<td>General Psychology</td>
<td>PSYC 201</td>
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<td>Physical Fitness, Resiliency, and Wellness</td>
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<td>Educational Psychology</td>
<td>EDUC 202</td>
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<tr>
<td>Motor Development and Learning</td>
<td>EXSC 200</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Development Team Sports</td>
<td>PHED 335</td>
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<td>1st Year Basic ROTC</td>
<td>102</td>
<td>1</td>
<td>(1,0)</td>
</tr>
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</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Catalog Code</th>
<th>Hours</th>
<th>Credits</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Adapted Physical Education and Sport</td>
<td>PHED 303</td>
<td>3</td>
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<td>Strand Natural Science</td>
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<td>2nd Year Basic ROTC</td>
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</table>

NOTE: Acceptance into the PETC is based on the following criteria:
1. Official record of passing score on all three parts of the PRAXIS Core or record of an SAT/ACT score that resulted in exemption from this requirement.
2. Maintained a cumulative Grade Point Average of 2.75 or higher on at least 45 hours of course work at The Citadel.
3. Successfully completed EDUC 202/307; EXSC 200; PHED 101, 335/350 with a C or better.
## PHYSICAL EDUCATION
### Teaching Track
#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
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<td>Biomechanical Kinesiology</td>
<td>EXSC</td>
<td>314</td>
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<td>Physiology of Exercise I</td>
<td>EXSC</td>
<td>319</td>
<td>3</td>
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<td>Physiology of Exercise I Lab</td>
<td>EXSC</td>
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<td>Elementary School Physical Education</td>
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#### Senior Year

<table>
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<th>Course</th>
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<tr>
<td>Senior Leadership Integration Seminar</td>
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<tr>
<td>Advocacy and Accountability in Public</td>
<td>HLED</td>
<td>407</td>
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<tr>
<td>Health &amp; Education</td>
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<tr>
<td>Strand History</td>
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<td>Measurement and Evaluation</td>
<td>EXSC</td>
<td>305</td>
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<td>Health and Physical Education</td>
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<tr>
<td>Middle and High School</td>
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<tr>
<td>Strand English</td>
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<td>Required Physical Education</td>
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<tr>
<td>2nd Year Advanced ROTC</td>
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<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.
**PHED 203 may also be taken.
PHYSICAL EDUCATION
Teaching Track
Second Semester

JUNIOR YEAR
Leadership in Organizations ..................... LDRS 371 3 (3,0)
Adapted Physical Activity and Sports............. PHED 303 3 (3,0)
Administration of Health, Exercise, Sport Science, and Physical Education
Methods of Teaching Team Sports............... PHED 460 3 (3,0)
Foundations in Literacy............................. EDUC 301 3 (3,0)
1st Year Advanced ROTC

SENIOR YEAR
Senior Seminar in Health, Exercise, Sport Science and Physical Education................. PHED 421 1 (1,0)
Internship in Teaching................................ PHED 499 12
2nd Year Advanced ROTC

NOTE: Admission to student teaching is contingent upon the following:
1. All required course work completed with a GPA of at least a 2.75 (with the exception of PHED 499).
2. Completed the following professional education courses with a cumulative GPR of a 2.75 or higher:
3. Passing scores on PRAXIS II (5095) on file at The Citadel prior to student teaching.
4. Passing scores on PLT must be on file in order to graduate.

REQUIRED FOR GRADUATION: 123 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Mathematical Sciences

Department Head: Chen
Professors: Chen, Trautman, Zhang
Associate Professors: Florez, Horton, Mukherjee, Swart, Wittman
Assistant Professors: Li, Lyons, Robinson

Our mission is to prepare all students to meet the mathematical and computing demands they will face in their careers and as knowledgeable citizens. Through academic programs, research, and public service the department supports the disciplines within the mathematical sciences and the growth and development of educational opportunities in the Lowcountry.

To achieve this goal, the department offers the B.S. degree in mathematics and minors in applied mathematics and applied statistics. In addition, the department offers courses in support of other disciplines and courses in quantitative reasoning and data analysis in support of the core educational curriculum.

B.S. Mathematics Major

The B.S. program in mathematics is designed to prepare our students to pursue graduate work in pure or applied mathematics and to provide the background which will enable them to use mathematics in the behavioral sciences as well as in more technical areas.

The course of study leading to the B.S. with a major in mathematics includes 18 semester hours of general electives. The required courses are 3 or 4 semester hours of computer science (CSCI 205 or 201) and the following 40 semester hours of core mathematics: MATH 121, MATH 131, MATH 132, MATH 206, MATH 231, MATH 234, MATH 240, MATH 303, STAT 261, MATH 403, MATH 470, MATH 495.

All undergraduate courses taken at The Citadel with a subject prefix of MATH will count towards the major GPA.

In addition, the student must select 12 hours of approved Mathematics Electives from among the mathematics courses numbered at the 300 or 400 level.

Minor in Applied Mathematics

Objectives:

This minor is designed to allow a student not majoring in mathematics to learn techniques of applied mathematics and to be exposed to a variety of mathematical modeling techniques. Students are expected to have completed one of the calculus sequences, MATH 131/132, or HONR 131/132 to be eligible.

Competencies, Knowledge, or Skills to be Achieved:

A student who completes this minor will have a sound foundation in techniques of linear algebra and differential equations, and will have utilized these techniques in at least one area of application.

This minor is not approved for students majoring in mathematics.
Structure of the Minor:

1. Required courses: (10 credit hours)
   - MATH 234 Applied Engineering in Mathematics I
   - MATH 240 Linear Algebra or MATH 206 Intro to Discrete Structure
   - MATH 470 Mathematical Models and Applications or approved
     MATH 490

2. Electives (6 credit hours)
   Choose two from among:
   - MATH 335 Applied Engineering Mathematics II
   - MATH 343 Applied Numerical Methods I
   - MATH 344 Applied Numerical Methods II
   - MATH 381 Deterministic Methods of Operations Research
   - MATH 382 Probabilistic Methods of Operations Research
   - MATH 451 Graph Theory
   - Approved MATH 390 Topics in Mathematics
   - Approved MATH 490 Advanced Topics in Mathematics
   - STAT 261 Introduction to Probability and Statistics or ELEC 412 but not both
   - STAT 366 Applied Statistics
   - STAT 461 Data Analysis

Total Credit Hours Required — 16, at least 9 of which must be completed at The Citadel.

Minor in Applied Statistics

Objectives:

A minor in applied statistics will provide students the opportunity to obtain a sound background in practical statistical skills necessary for employment in business, industry, and government, as well as data analysis skills in doing research related to business, engineering, science (computer science, physics, life science, and health science), and social science (criminal justice, intelligence, political sciences, and psychology).

Competencies, Knowledge, or Skills to be Achieved:

A student who completes this minor will have had the opportunity to develop a variety of statistical tools for analyzing data. The student will understand the fundamental idea behind statistical data analysis. The student will make extensive use of statistical software packages and will have the opportunity to apply techniques of statistical analysis in at least one area of application.

Structure of the Minor:

1. One required introductory course: (3 credit hours)
   (a) STAT 160 Statistics
   (b) STAT 261 Introduction to Probability and Statistics
   (c) ELEC 412 Applied Probability and Statistics

2. Two required courses: (6 credit hours)
(a) STAT 366   Applied Statistics
(b) STAT 461   Data Analysis
3. Electives (6 credit hours)
   MATH 335, MATH 451, MATH 390, STAT 366, STAT 461
Choose one of the following sequences:
   PSCI 308 and PSCI 393
   PSYC 201 and PSYC 203
   PHED 303 and EXSC 305

Total Credit Hours Required: 15, at least 9 of which must be completed at The Citadel

The Mathematics Placement Exam
The Mathematics Placement Exam (MPE) is given online and is designed to evaluate a student’s readiness for MATH 131, Analytic Geometry and Calculus I. A student’s score on the MPE determines whether or not the student will need to complete MATH 119, Precalculus, before taking MATH 131. Students who have college credit for MATH 131 or MATH 119 are exempted from the MPE.

Mathematics Tutorials
Personal tutorial assistance for students having difficulties with freshman and sophomore level mathematics course work is provided through the Student Success Center in Thompson Hall. Assistance is provided during the normal working day and during evening study periods. Additional materials - worksheets, workbooks, texts, journals, etc. - that complement classroom work are available.

Mathematics Course Descriptions
MATH 104  Elementary Mathematical Modeling  Three Credit Hours
Prerequisites: Two years of high school algebra
This course will introduce students to mathematical models of real world problems. Designed for non-technical majors, this course focuses on basic mathematical functions, modeling using those functions, properties of their graphs, and real-world applications. Functions will include linear, quadratic, higher degree polynomial, exponential, logarithmic, and logistic. Students will solve problems using algebra and a graphing calculator; they will use matrices for solving systems of linear equations; and they will be required to interpret results in writing.

MATH 105  Finite Mathematics  Three Credit Hours
Prerequisites: Two years of high school algebra
This course is an introduction to finite mathematics with an emphasis on applications and formulation of problems in mathematical language. Students are taught a variety of topics, including mathematics of finance, counting methods, probability, and statistics. The course also includes lab assignments using a computer software package.
MATH 106  Applied Calculus I  Three Credit Hours
Prerequisite: Two years of high school algebra
An introduction to differential and integral calculus of polynomials, exponential, and logarithmic functions with an emphasis on applications to business and the life and social sciences. Students may not receive credit for both MATH 106 and MATH 131.

MATH 107  Applied Calculus II  Three Credit Hours
Prerequisite: MATH 106 with a grade of “C” or higher or MATH 131 with a grade of “C” or higher.
A continuation of the calculus introduced in MATH 106. Topics include techniques of integration, applications of integrals, improper integrals, partial derivatives and applications, and a brief introduction to double integrals.

MATH 118  College Algebra with Trigonometry  Four Credit Hours
The goal of this course is to prepare students for Precalculus (MATH 119). This course focuses on basic properties of functions that are linear, quadratic, higher degree polynomial, exponential, logarithmic, and trigonometric. Students will have a good understanding of these properties verbally, numerically, graphically and algebraically, and know how to apply these properties in real-world applications and Precalculus.

MATH 119  Precalculus  Four Credit Hours
Prerequisite: MATH 118 with a grade of "C" or higher, or a satisfactory score on the Math Placement Exam, or approval of the department head
The goal of this course is to prepare students majoring in mathematics, sciences, and engineering for the required calculus sequence. Topics include polynomial, rational, exponential, logarithmic, and trigonometric functions and their graphs, with emphasis on conceptual understanding and algebraic skills necessary for success in calculus. Students in the majors above will normally start their mathematics track in Analytic Geometry and Calculus I (MATH 131). Students desiring to enhance their mathematics foundation before taking Analytic Geometry and Calculus I can opt to take this course. A student who passes MATH 119 and subsequently changes to a major that does not require MATH 131 may substitute MATH 119 for MATH 104.

MATH 121  Introduction to the Practice of Mathematics  Three Credit Hours
Prerequisites: None
This course is restricted to the first year mathematics majors
This course is required of all mathematics majors during the first year. It is intended to provide them with basic skills needed for independent studies and undergraduate research projects in mathematics. Among these skills are effective written and oral mathematical communication and basic facility with modern mathematical software. Instruction in written communication will include the craft of mathematical writing, the use of technology (e.g., LATEX) for creation of mathematical text, and readings of level-appropriate mathematics articles in undergraduate journals. Attendance at some departmental seminars will be required and models for effective presentations in professional venues will be discussed. An introduction to computational (e.g., MATLAB) and indexing (e.g., MathSciNet) software that will be of use throughout the four-year curriculum will be provided.
MATH 131  Analytic Geometry and Calculus I  Four Credit Hours
Prerequisite: MATH 119 with a grade of “C” or higher, or a satisfactory score on the placement exam, or approval of the department head.
  Limits, derivatives, applications of the derivative, antiderivatives and definite integrals.
Students who complete MATH 131 and change to a major that does not require MATH 132 must complete one additional MATH course. Students may not receive credit for both MATH 106 and MATH 131.

MATH 132  Analytic Geometry and Calculus II  Four Credit Hours
Prerequisite: MATH 131 with a grade of “C” or higher or HONR 131 with a grade of “C” or higher
  Applications of the integral, transcendental functions, techniques of integration, series and sequences of real numbers, Taylor series, power series, parametric equations and polar coordinates.

MATH 206  Introduction to Discrete Structures  Three Credit Hours
Prerequisite: MATH 131, or HONR 131, or a grade of “C” or higher in MATH 106 or MATH 119
  Set algebra including relations and functions, propositional and predicate logic, combinatorics, graphs, and applications of these to various areas of computer science.

MATH 231  Analytic Geometry and Calculus III  Four Credit Hours
Prerequisites: MATH 132 or HONR 132
  The analytical geometry of two and three dimensions, the differential and integral calculus of functions of two or more variables, and vector differential calculus.

MATH 234  Applied Engineering Mathematics I  Four Credit Hours
Prerequisite: MATH 132 or HONR 132
  An integrated course in linear algebra and differential equations. Topics include differential equations of the first order and degree, linear differential equations of higher order, systems of differential equations, the Laplace transform, vector spaces, bases, linear transformations, systems of linear equations, algebra of matrices, and determinants.

MATH 240  Linear Algebra  Three Credit Hours
Prerequisite: MATH 132, MATH 107, or HONR 132
  Systems of linear equations, algebra of matrices, inverses, determinants, vector spaces with emphasis on Euclidean vector spaces, bases, subspaces, transformations, eigenvalues and eigenvectors, and quadratic forms.

MATH 290  Topics in Mathematics  Three Credit Hours
A study of a particular aspect of mathematics or a related area that is of interest to both mathematics majors and other majors, but is not in our list of standard courses. This course assumes no prerequisites.
MATH 303 and Modern Algebra I and II Three Credit Hours
Prerequisites: MATH 206 and MATH 240.
A two-semester sequence in the algebraic structures that lie at the foundations of many areas of modern mathematics. Topics chosen from theory of groups, rings, integral domains, and fields, coding theory, Galois theory, modules, and Euclidean constructions.

MATH 305 Modern Geometry Three Credit Hours
Prerequisite: MATH 132, MATH 107, or HONR 132
Special topics from axiomatic geometries. Topics include Euclidean geometry, projective geometry, non-Euclidean geometry, and metric projective geometry.

MATH 335 Applied Engineering Mathematics II Three Credit Hours
Prerequisites: MATH 231 and MATH 234
Advanced topics in differential equations and multi-dimensional calculus. Topics include power series solutions of differential equations, line and surface integrals, Fourier series, vector integral calculus, special functions, and an introduction to partial differential equations.

MATH 343 Applied Numerical Methods I Three Credit Hours
Prerequisites: MATH 240 or MATH 234, and knowledge of a programming language
An introduction to numerical methods. Topics include floating-point computation, finding zeros of functions, direct methods for solving systems of linear equations, interpolation, and numerical differentiation and integration.

MATH 344 Applied Numerical Methods II Three Credit Hours
Prerequisite: MATH 234 and knowledge of a programming language
A further study of numerical methods. Topics include approximation, numerical solutions of ordinary differential equations, iterative methods for solving systems of linear equations, eigenvalue problems, and error analysis.

MATH 381 Deterministic Methods of Operations Research Three Credit Hours
Prerequisites: One semester of calculus
The theory and applications of deterministic models of operations research. Topics include linear programming and the simplex algorithm, transportation and assignment problems, graphs and network flows, dynamic programming, and sensitivity analysis.

MATH 382 Probabilistic Methods of Operations Research Three Credit Hours
Prerequisites: Two semesters of calculus
The theory and applications of probabilistic models of operations research. Topics include queuing models, birth and death processes, finite-state markov chains, inventory theory, forecasting, simulation, decision analysis, game theory, and reliability.
MATH 390  Topics in Mathematics  Three Credit Hours
A study of a particular aspect of mathematics or a related area at junior level that is of interest to both mathematics majors and other majors, but is not on our list of standard mathematics courses. The offering of this course will depend upon the interest of the students, the availability of an instructor, and approval of the department head. Since the content of the course may change, a student may repeat the course for credit with the consent of the department head.

MATH 399  Junior Research Project  Three Credit Hours
Open only to junior mathematics majors with a MATH GPA of at least 3.0. It is required to have a written proposal accepted by the research advisor and the department head.
This course offers a mathematics junior an opportunity to complete research in an area of current interest and importance in mathematics in collaboration with a research advisor. A formal paper is required in this course. Although it is a 300-level course, this course is not approved as a departmental elective. It may be used to fulfill a general elective. This course satisfies the ROTC-fulfillment requirement.

MATH 403 and  Introduction to Analysis  Three Credit Hours
MATH 404  I and II  Each Semester
Prerequisite: MATH 231
A two-semester sequence in real analysis. Topics include sets, functions, properties of the ordered field of real numbers, topology of the reals, sequences and series, continuity, differentiation, integration, and sequences and series of functions.

MATH 405  Mathematical Statistics  Three Credit Hours
Prerequisites: MATH 132 and STAT 361
Axioms of probability, combinatorial probability, random variables, distribution functions, law of large numbers, central limit theorem, estimation, maximum likelihood methods, hypothesis testing, confidence intervals, and non-parametric methods.

MATH 411  Number Theory  Three Credit Hours
Prerequisite: MATH 132, MATH 107, or HONR 132
The Euclidean algorithm, prime and composite integers, elementary Diophantine equations, Pythagorean triples, Euler’s phi-functions, congruencies, Euler-Fermat theorems, exponents and primitive roots, and quadratic residues.

MATH 412  History of Mathematics  Three Credit Hours
Prerequisite: MATH 132, MATH 107, or HONR 132
A survey of the concepts and methods of mathematics from the time of the ancients to the present. The course includes a research paper on some major mathematician or body of mathematics.
MATH 414  
*Teaching Secondary School Mathematics*—Three Credit Hours  

*The Teaching Cycle*

Prerequisite: MATH 303  
Students examine research-based models of teaching and learning in mathematics. Students also work in Professional Learning Communities (PLCs) within the class to model the ongoing professional development they will be expected to undertake throughout their careers. Topics include: constructing quality assessments, promoting mathematical discourse, thoughtful integration of technology, and issues of equity and access.

MATH 415  
*Teaching Secondary School Mathematics*—Three Credit Hours  

*Mathematical Proficiency and Motivation*

Prerequisite: MATH 303  
Topics include: unpacking the concept of mathematical proficiency in the context of Algebra I, Algebra II, and Geometry; research-based strategies for promoting student motivation; and the role of classroom culture and student identity in teaching and learning. Students will work in Professional Learning Communities (PLCs) within the class to model the ongoing professional development they will be expected to undertake throughout their careers. Students will also gain experience productively observing current in-service teachers, building skills and dispositions that are key to long-term professional growth and development.

MATH 422  
*Complex Variables*—Three Credit Hours  

Prerequisite: MATH 231
Topics from complex function theory: complex differentiation and integration, Cauchy theorem, complex series and uniform convergence, harmonic functions.

MATH 451  
*Graph Theory*—Three Credit Hours  

Prerequisite: MATH 206
A formal introduction to the theory and applications of graphs. Topics include connectivity, trees, Eulerian graphs, Hamiltonian graphs, planarity, graph colorings, matchings, and domination.

MATH 470  
*Mathematical Models and Applications*—Three Credit Hours  

Prerequisite: MATH 234
An introduction to the theory and practice of building and analyzing mathematical models for real world situations encountered in the social, biological, and environmental sciences.

MATH 480  
*Readings in Mathematics*—Three Credit Hours  

Prerequisite: Permission of the instructor
Directed reading on assigned topics in mathematics. The course includes weekly conferences with the instructor and a formal paper. Since the content of the course may change, a student may repeat the course for credit with the consent of the department head.
MATH 490  
**Advanced Topics in Mathematics**  
Three Credit Hours  
Prerequisite: Permission of the instructor  
Selected topics in mathematics. The offering of this course will depend upon the interest of the students, the availability of an instructor, and approval of the department head. Since the content of the course may change, a student may repeat the course for credit with the consent of the department head.

MATH 495  
**Senior Seminar in Mathematics**  
Three Credit Hours  
Open only to senior mathematics majors.  
This is a “capstone” course that will cover various topics from the undergraduate mathematics curriculum. Each student will have a substantial term project and will write a paper and make an oral presentation to departmental faculty about that topic. This course satisfies the ROTC-fulfillment requirement.

MATH 499  
**Senior Research Project**  
Three Credit Hours  
Prerequisite: Approval of department head  
Open only to senior mathematics majors with a MATH GPA of at least 2.500.  
A research project with a required formal paper. Recommended for students planning graduate work. Approval for enrollment based on the acceptance of a written proposal by the instructor and approval of the department head.  
This course can be approved as a departmental elective for a student if the following criteria are satisfied:  
(1) the student has a MATH GPA of at least 3.0,  
(2) the proposed research project is a continuation of a project conducted during the previous semester(s) with at least one oral or poster presentation given at the Citadel Student Excellence Day or a regional conference during the previous semester(s) or submitting at least one journal paper to a known journal in a STEM field, and  
(3) the additional research results will be presented at the Citadel Student Excellence Day, at a regional conference, or a known journal in a STEM field during the semester.  
This course satisfies the ROTC-fulfillment requirement.

**Statistics Course Descriptions**

STAT 160  
**Statistical Methods**  
Three Credit Hours  
An elementary treatment of probability and statistical concepts. Topics include descriptive statistics, probability basics, population distribution, sampling distribution and hypothesis testing for population mean. Emphasis will be placed on understanding the fundamental concepts in statistics and interpretation of statistical results. Excel/calculators are used for computation.

STAT 261  
**Introduction to Probability and Statistics**  
Three Credit Hours  
Prerequisite: MATH 131 or MATH 106  
An introduction to probability and statistical concepts. Topics include frequency distributions, probability theory, probability distributions, central limit theorem, sampling distribution, and hypothesis testing for parameters of population. A statistical package will be introduced.
STAT 290  Topics in Statistics  Three Credit Hours
  Prerequisite: Permission of the instructor
  A study of a particular aspect of statistics or a related area that is of
  interest to computer science, mathematics and other majors, but is not in the
  department list of standard courses.

STAT 366  Applied Statistics  Three Credit Hours
  Prerequisite: STAT 160 or STAT 261
  A course in applied statistics covering practical statistical methods. Topics
  include comparisons of population means, One-way ANOVA, simple
  linear regression, categorical data analysis and certain nonparametric
  procedures. A statistical package will be introduced.

STAT 390  Topics in Statistics  Three Credit Hours
  A study of a particular aspect of statistics or a related area at junior level
  that is of interest to both mathematics majors and other majors, but is not on
  our list of standard statistics courses. The offering of this course will depend
  upon the interest of the students, the availability of an instructor, and approval
  of the department head. Since the content of the course may change, a student
  may repeat the course for credit with the consent of the department head.

STAT 461  Data Analysis  Three Credit Hours
  Prerequisite: STAT 261 or STAT 366 or BANA 201
  An introduction of using statistical packages such as R to analyze data
  from real world examples. Topics include exploratory analysis of data, the
  analysis of variance, linear regression models, multiple comparisons and
  resampling techniques such as bootstrap method.

STAT 490  Advanced Topics in Statistics  Three Credit Hours
  Prerequisite: Permission of the instructor
  Selected topics in statistics. The offering of this course will depend upon
  the interest of the students, the availability of an instructor, and approval of
  the department head. Since the content of the course may change, a student
  may repeat the course for credit with the consent of the department head.
# MATHEMATICS MAJOR
## First Semester

**FRESHMAN YEAR**

<table>
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<th>Code</th>
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<td><strong>Freshman Science</strong></td>
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<tr>
<td>Modern Language</td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Introduction to the Practice of Mathematics</td>
<td>MATH 121</td>
<td>3</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus I</td>
<td>MATH 131</td>
<td>4</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
<td>101</td>
<td>1</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Credits</th>
</tr>
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<tr>
<td>LDRS 201/211</td>
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<tr>
<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED 260</td>
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<tr>
<td>Strand English</td>
<td>ENGS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Discrete Structures</td>
<td>MATH 206</td>
<td>3</td>
</tr>
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<td>Analytic Geometry and Calculus III</td>
<td>MATH 231</td>
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<tr>
<td>General Elective</td>
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**JUNIOR YEAR**

<table>
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<tr>
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<th>Code</th>
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<tbody>
<tr>
<td>LDRS 311</td>
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<tr>
<td>Leadership in Organizations</td>
<td>LDRS 371</td>
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<tr>
<td>Technical Writing and Communication</td>
<td>COMM 260</td>
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<tr>
<td>Mathematical Models and Applications</td>
<td>MATH 470</td>
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<td><strong>Mathematics Elective</strong></td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Required Physical Education</td>
<td>RPED</td>
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<tr>
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**SENIOR YEAR**

<table>
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<tr>
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<tbody>
<tr>
<td>LDRS 411</td>
<td>0</td>
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</tr>
<tr>
<td>Strand Social Science</td>
<td>SCSS 30x</td>
<td>3</td>
</tr>
<tr>
<td>Capstone/Senior Seminar in Mathematics</td>
<td>MATH 495</td>
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</tr>
<tr>
<td><strong>Mathematics Elective</strong></td>
<td>MATH</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

**See the "Undergraduate Curriculum" section for a list of courses that will satisfy freshman math and science requirements.

***Any approved mathematics course numbered at the 300 or 400 level.
## Mathematics Major

### Second Semester

### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
</tr>
<tr>
<td>Freshman Linked Writing Intensive</td>
<td>FSWI 101</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Analytic Geometry and Calculus II</td>
<td>MATH 132</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Computer Science I OR ...</td>
<td>CSCI 201</td>
<td>4</td>
</tr>
<tr>
<td>...Introduction to Programming using Python</td>
<td>CSCI 205</td>
<td>3</td>
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<td>102 1</td>
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### Sophomore Year

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<thead>
<tr>
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<tbody>
<tr>
<td>Introduction to Probability and Statistics</td>
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<tr>
<td>Applied Mathematics I</td>
<td>MATH 234</td>
<td>4</td>
</tr>
<tr>
<td>Linear Algebra</td>
<td>MATH 240</td>
<td>3</td>
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<tr>
<td>Strand Natural Science</td>
<td>NTSS 30x</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>Required Physical Education</td>
<td>RPED 0</td>
<td>(0,1)</td>
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### Junior Year

<table>
<thead>
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</thead>
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<tr>
<td>Strand History</td>
<td>HISS 30x</td>
<td>3</td>
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<tr>
<td>Modern Algebra I</td>
<td>MATH 303</td>
<td>3</td>
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<tr>
<td>***Mathematics Elective</td>
<td>MATH 303</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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<td>3</td>
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<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>1st Year Advanced ROTC</td>
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### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Strand Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Analysis I</td>
<td>MATH 403</td>
<td>3</td>
</tr>
<tr>
<td>***Mathematics Elective</td>
<td>MATH 303</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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<td>General Elective</td>
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<td>3</td>
</tr>
<tr>
<td>2nd Year Advanced ROTC</td>
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</tr>
</tbody>
</table>

REQUIRED FOR GRADUATION: 125 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Swain Department of Nursing

Department Head: Joseph  
Associate Professor: Ballestas, Joseph  
Instructor: Donahue

The Swain Department of Nursing is structured to prepare students for the role of a novice nurse in clinical practice. The department focuses on the caring and healing aspects of nursing and promotes the leadership role that nurses play in the care of individuals, families and communities. Courses progress from the care of healthy and/or chronically ill but stable individuals through the care of multiple individuals, those with complex health care needs and the health needs of populations. The critical role of quality and safety in healthcare is threaded throughout the curriculum.

All undergraduate courses taken at The Citadel with a subject prefix of NURS will count towards the major GPA.

Research Opportunities

Students are encouraged to participate with faculty in research and evidence-based practice projects. As a developing science, the opportunities for research in nursing are numerous. Clinical practice partners are increasingly interested in scientific evidence to support the practice of nursing and students have an opportunity to support this need through evidence-based projects.

Nursing Course Descriptions

NURS 200  Introduction to Nursing  Two Credit Hours
Introduces the student to the nursing profession. This course provides an overview of nursing science to the student. The history of nursing is explored as well as theoretical frameworks that establish nursing as an independent discipline. Students are exposed to trends in healthcare that transform the role and responsibilities of the nurse in population health. The students will explore nursing education, evidence-based practice and its use in the healthcare arena as well as critical thinking and the nursing process.
Lecture: two hours

NURS 201  Health Assessment  Four Credit Hours
Prerequisite: NURS 200
Introduces students to the methods of the assessment of the healthy adult, which includes obtaining the health history, physical examination skills, health promotion strategies, and clinical assessment tools while incorporating communication skills. Professional behaviors are learned and practiced.
Lecture: three hours; laboratory: two hours
NURS 202  *Fundamentals of Nursing*  Four Credit Hours
Prerequisite: NURS 200
This course introduces the student to the nursing process, concept of critical thinking, evidence-based practice, and fundamental skills necessary for the provision of safe and effective nursing care. Professional behaviors are learned and practiced.
   Lecture: three hours; laboratory: two hours

NURS 211  *Health Assessment Laboratory*  One Credit Hour
This is the laboratory experience associated with NURS 201, Health Assessment. It provides students with the opportunity to apply concepts learned in the classroom setting. Each week, students use knowledge gained during class to assess different body systems. Student use inspection, auscultation, percussion, and palpation techniques as well as the nursing process. At the conclusion of the course, students must complete a head-to-toe nursing assessment.

NURS 212  *Fundamentals of Nursing Laboratory*  One Credit Hour
Basic nursing skills are introduced in the didactic setting and reinforced in nursing simulation lab. Emphasis is placed on safe nursing practice, evidence based practice, and patient centered care.

NURS 301  *Adult Health I*  Three Credit Hours
Prerequisites: NURS 201/211; NURS 202/212; BIOL 340; BIOL 341
This course will focus on critical thinking and the nursing process that addresses the specific needs of the hospitalized adult with medical and/or surgical disorder. The roles and responsibilities of the professional nurse will be explored. The student will apply knowledge gained through the Fundamentals, Pathophysiology, and Pharmacology course to the care of patients in the health care setting that promotes maintenance, promotion, and restoration of physiological/psychosocial function. The student will use an interprofessional approach to care incorporating principles of caring. This course uses knowledge gained in pathophysiology and pharmacology to address the nursing care of patients.
   Lecture: three hours

NURS 302  *Adult Health II*  Three Credit Hours
Prerequisites: NURS 301/311
This course is designed to expand the knowledge of the student in the care of the hospitalized patient. Students apply critical thinking skills to the care of complex patients including patient and family teaching and planning across the continuum of care. The student uses knowledge gained in previous and concurrent courses and continues to build a professional knowledge base using evidence and analytical decision-making.
   Lecture: three hours
NURS 303  Health Policy  Three Credit Hours
This course introduces the student to issues in health policy and management within the United States. Four specific areas are covered: economics and financing, need and demand, politics/ethics/law, and quality and safety.
Lecture: three hours

NURS 306  Healthcare Analytics  Two Credit Hours
This course is designed to give the student the basic knowledge needed to identify a problem related to the delivery of healthcare care, craft metrics for the objective assessment of the problem, collect and analyze the data and present information in a format that is usable for decision and policy makers. The student explores existing measures of quality and safety and has an opportunity to apply basic data analytic strategies to these measures. The student also has an opportunity to identify a problem that is important to the practice setting and design and implement a measurement plan to address the problem.

NURS 307  Comparative Health Systems  Three Credit Hours
Students will learn to recognize differences in health systems of the Americas Region, European Region, Middle East and Africa Region, and the Asian and Pacific Regions of the world. The strengths and weaknesses of these various national health systems will be identified, evaluated, and discussed. Students will be able to better assess the U.S. health system by putting it into a broader perspective after completing this class.

NURS 311  Adult Health I Clinical  Two Credit Hours
Prerequisites: NURS 201/211; NURS 202/212; BIOL 340; BIOL 341
Corequisite: NURS 301
This clinical course is designed to explore the role of the professional nurse in the care of the hospitalized adults with specific medical/surgical conditions. The students will apply critical thinking skills and utilize the nursing process to provide care that addresses the needs of care of individuals to promote and restore physiological and psychosocial function. This encompasses individual and family teaching and planning across the continuum of care. The student will use knowledge gained in previous and concurrent courses and continues to build a professional knowledge base using evidence and analytical decision-making.
Laboratory/Clinical: six hours

NURS 312  Adult Health II Clinical  Two Credit Hours
Prerequisites: NURS 301/311
Corequisite: NURS 302
This clinical course is designed to expand the role of the professional nurse in the care of the complex hospitalized adults with specific medical/surgical conditions. The students will utilize critical thinking skills and the nursing process to provide care that addresses the needs of care of individuals to promote and restore physiological and psychosocial function. This encompasses individual and family teaching and planning across the continuum of care. The student will use knowledge gained in previous and concurrent courses and continues to build a professional knowledge base using evidence and analytical decision-making.
Laboratory/Clinical: six hours
NURS 401  Maternal-Child Health  Five Credit Hours
Prerequisites: NURS 301/311
This course is designed to assist the student in caring for women and families. This course covers the application of the nursing process with this population where there will be a focus on the childbearing phase of development. This includes the assessment of health needs related to normal and abnormal prenatal, intrapartum, and postpartum physiological changes and psychosocial needs. There will be a focus on pediatric health and illness from infancy to adolescence. An emphasis is placed on growth and development, health promotion, evidence-based practice, cultural variation and communication with children and families in the hospital and community settings.
Lecture: three hours; laboratory/clinical: six hours

NURS 402  Community and Mental Health Nursing  Five Credit Hours
Prerequisites: NURS 301/311
This is an integrated course that allows the student to understand population health as well as focus on behavioral issues. Students will focus on the dynamics of the client with behavioral issues within the larger population and the special needs associated with these clients. The student will employ a biopsychosocial approach to care. The student will also work with interprofessional groups on general population health and healthy communities and focus on assessing needs and promoting health of vulnerable individuals, groups, and communities. Family and community assessments will be performed utilizing public health concepts and principles.
Lecture: three hours; laboratory/clinical: six hours

NURS 403  Evidence-Based Practice  Three Credit Hours
Students are exposed to the use of evidence in daily nursing practice. Research and performance improvement activities are learned. Students identify a problem statement and search the literature for supporting evidence. Basic data analysis skills are developed with the emphasis on the review and critique of published research with consideration of the application of research finding in the healthcare.
Lecture: three hours

NURS 404  Nursing Leadership  Three Credit Hours
Students are exposed to effective leadership and management skills both within the health care profession as well as the community at large. Although bioethics is emphasized in each individual course, organizational ethics are presented to the student where the impact of legal, social, political and economic forces impact the profession of nursing, the healthcare systems and society as a whole.
Lecture: three hours.
NURS 405  *Adult Health III*  Three Credit Hours
Prerequisites: NURS 302/312

This is the capstone course for nursing which integrates concepts and skills learned throughout the curriculum. Students focus on the care of complex individuals and populations. While the focus is on the care of the individual in the hospital setting, highly coordinated care in the community will also be studied. Ethical and moral aspects of care will be learned as well palliative and end of life care principles and psychosocial aspects of individuals and families in crisis.

NURS 406  *Special Topics*  Three Credit Hours

This course is designed for a detailed study of special topics in nursing and health. Examples might include but not be limited to: internships, undergraduate research, or special field experience.

NURS 411  *Maternal-Child Health Clinical*  Three Credit Hours
Prerequisites: NURS 301/311

This course will address nursing care issues from a physiological, pathophysiological, and psychosocial context. It will present content of two disciplines comprehensively, promoting a sensitive, holistic outlook on nursing practice. Nurses will be presented up-to-date information that will allow them to think critically, creatively, and compassionately for these populations.

NURS 412  *Community & Mental Health Clinical*  Three Credit Hours
Prerequisites: NURS 301/311

This is the clinical component for the integrated course of mental health/behavioral issues and community, population health and community health. Students will have experiences in a variety of different clinical settings designed to support the learning outcomes of the course. In some instances students will be involved in direct care of individual patients, others will be observational experiences and others will be the management of populations or communities.

NURS 415  *Community & Mental Health Clinical*  Two Credit Hours
Prerequisites: NURS 302/312

This course serves as the clinical component to NURS 405, the capstone course for the nursing program. Students take information learned throughout their curriculum and apply concepts and skills to the care of complex patients and populations. While the focus is on the care of the individual in the hospital setting, highly coordinated care in the community will also be studied. Students will also learn about the care of complex population of patients. Ethical and moral aspects of care will be learned as well palliative and end of life care principles and psychosocial aspects of individuals and families in crisis.
### NURSING MAJOR

#### First Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
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<th>Hours</th>
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<tr>
<td>First Year Experience</td>
<td>LDRS 101</td>
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<td>Freshman Seminar</td>
<td>FSEM 101</td>
<td>3</td>
<td>(3,0)</td>
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<td>FLWI   101</td>
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<td>(3,0)</td>
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<td>BIOL 130</td>
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<td>(0,2)</td>
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<td>Introduction to Chemistry I</td>
<td>CHEM 103</td>
<td>3</td>
<td>(3,0)</td>
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<td>Introduction to Chemistry I Laboratory</td>
<td>CHEM 113</td>
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<td>(0,2)</td>
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<td>Physical Fitness, Resiliency, and Wellness</td>
<td>RPED   260</td>
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#### Sophomore Year

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<tr>
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<tbody>
<tr>
<td>Sophomore Seminar in Principled Leadership</td>
<td>LDRS 201/</td>
<td>1</td>
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<td>(211 may be taken either semester)</td>
<td>LDRS 211</td>
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<tr>
<td>Strand Social Science</td>
<td>SCSS   30x</td>
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<td>Human Anatomy &amp; Physiology II</td>
<td>BIOL 218</td>
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<td>Microbiology</td>
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<td>Fundamentals of Nursing</td>
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<td>Fundamentals of Nursing Laboratory</td>
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#### Junior Year

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<tbody>
<tr>
<td>Junior Ethics Enrichment Experience</td>
<td>LDRS 311</td>
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<tr>
<td>Strand English</td>
<td>ENGS   30x</td>
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<td>(3,0)</td>
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<td>Strand Elective</td>
<td>ELES   30x</td>
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<td>(3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Adult Health I</td>
<td>NURS 301</td>
<td>3</td>
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<tr>
<td>Adult Health I Clinical &amp; Laboratory</td>
<td>NURS 311</td>
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#### Senior Year

<table>
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<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Senior Leadership Integration Seminar</td>
<td>LDRS 411</td>
<td>0</td>
<td>(1,0)</td>
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<tr>
<td>***Maternal-Child Health OR</td>
<td>NURS 401/</td>
<td>5</td>
<td>(3,6)</td>
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<tr>
<td>Community &amp; Mental Health</td>
<td></td>
<td>402</td>
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<tr>
<td>Community and Mental Health Clinical OR</td>
<td>NURS 411/</td>
<td>3</td>
<td>(0,3)</td>
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<tr>
<td>Community and Mental Health Clinical</td>
<td>NURS 412</td>
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<tr>
<td>Gerontology</td>
<td>HLED   301</td>
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<td>(4,0)</td>
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<tr>
<td>Scientific Inquiry</td>
<td>NURS 403</td>
<td>3</td>
<td>(3,0)</td>
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<tr>
<td>Strand Natural Science</td>
<td>NTSS   30x</td>
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</tbody>
</table>

*Represents semester credit, lecture, and laboratory hours, in that order.

***Students elect either NURS 401 or 402 in the fall semester and then elect the second course in the spring semester.
# Nursing Major

## Freshman Year

### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Anatomy &amp; Physiology I</td>
<td>BIOL</td>
<td>217</td>
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<td>Human Anatomy &amp; Physiology I Laboratory</td>
<td>BIOL</td>
<td>227</td>
<td>1 (0,2)</td>
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<tr>
<td>Introduction to Chemistry II</td>
<td>CHEM</td>
<td>104</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Introduction to Chemistry II Laboratory</td>
<td>CHEM</td>
<td>114</td>
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</tr>
<tr>
<td>Introduction to Nursing</td>
<td>NURS</td>
<td>200</td>
<td>2 (2,0)</td>
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<tr>
<td>Elementary Mathematical Modeling</td>
<td>MATH</td>
<td>104</td>
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</tr>
<tr>
<td>General Psychology</td>
<td>PSYC</td>
<td>201</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>1st Year Basic ROTC</td>
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<td>102</td>
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## Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Writing and Communication</td>
<td>COMM</td>
<td>260</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Health Assessment</td>
<td>NURS</td>
<td>201</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Health Assessment Laboratory</td>
<td>NURS</td>
<td>211</td>
<td>1 (0,1)</td>
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<tr>
<td>Pathophysiology</td>
<td>BIOL</td>
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<tr>
<td>Pharmacology</td>
<td>BIOL</td>
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## Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership in Organizations</td>
<td>LDRS</td>
<td>371</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Modern Language</td>
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<td>3</td>
<td>(3,0)</td>
</tr>
<tr>
<td>Developmental Psychology</td>
<td>PSYC</td>
<td>202</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Adult Health II</td>
<td>NURS</td>
<td>302</td>
<td>3 (3,0)</td>
</tr>
<tr>
<td>Adult Health II Clinical &amp; Laboratory</td>
<td>NURS</td>
<td>312</td>
<td>2 (0,6)</td>
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<tr>
<td>Nutrition</td>
<td>HLED</td>
<td>401</td>
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<tr>
<td>Required Physical Education</td>
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<td>(0,1)</td>
</tr>
<tr>
<td>1st Year Advanced ROTC</td>
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</table>

## Senior Year

### ***Maternal-Child Health OR Community & Mental Health

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal-Child Health</td>
<td>NURS</td>
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<tr>
<td>Community &amp; Mental Health</td>
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<td>402</td>
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<td>Community and Mental Health Clinical OR</td>
<td>NURS</td>
<td>411</td>
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</tr>
<tr>
<td>Community and Mental Health Clinical</td>
<td>NURS</td>
<td>412</td>
<td></td>
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<tr>
<td>Nursing Capstone</td>
<td>NURS</td>
<td>405</td>
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<tr>
<td>Nursing Capstone Clinical</td>
<td>NURS</td>
<td>415</td>
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<tr>
<td>Strand History</td>
<td>HISS</td>
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<tr>
<td>Required Physical Education</td>
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</table>

## Required for Graduation

127 credit hours plus successful completion of all RPED, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Physics

Department Head: Yochum
Professors: Berlinghieri, Curtis, Yost, Zimmerman
Associate Professors: Briggs
Assistant Professors: Leake
Instructor: Hurka

Physics is a vast and comprehensive discipline which studies the entire realm of nature from the upmost minute particles, distances and times imagineable to the most massive stars, the outer limits of the universe, and the eons of duration. From a more applied perspective, physics is used to solve practical problems, often to advance technology to positively impact humanity. Physics is particularly concerned with those aspects of nature which can be formulated in terms of principles and laws reduced to their essence and expressed in an elegant and concise mathematical form.

The Department of Physics at The Citadel provides a comprehensive curriculum leading to a Bachelor of Science degree in Physics as well as undergraduate education in basic physics through calculus-based and non-calculus based introductory sequences. In addition, some specialized graduate courses are available to support those pursuing advanced degrees in education.

The department sponsors a section of the Society of Physics Students and the physics honor society Sigma Pi Sigma to provide fellowship for physics majors and other students of similar interests and to make available extracurricular activities which illustrate that physics in practice is a vital and active discipline.

I. Bachelor of Science degree in Physics. This degree is designed to offer students a thorough education in physics at the undergraduate level and to prepare them for technical careers or to pursue graduate study in physics or related areas as appropriate to their career aspirations. Professional physicists have traditionally experienced careers in education, industry and government, but a sound knowledge of basic physics has become increasingly important to other areas of endeavor as well. For example, a strong undergraduate background in physics is considered essential to a career as a commissioned officer in one of the high-technology branches of the Armed Forces.

The curriculum for the B.S. degree in physics is comprehensive and includes 56 semester hours of physics, beginning with a one-semester introduction to physics course followed by a three-semester basic course in physics for engineers and physical scientists, a calculus-based sequence which emphasizes fundamental principles and problem solving, and which also includes a weekly two-hour laboratory each semester. The sophomore, junior and senior years include upper-division courses in analytical mechanics, electricity and magnetism, mathematical physics, electronics, thermodynamics, optics, modern physics, and quantum mechanics. Starting in their freshman year, majors receive four years of undergraduate research experience. Research planning, participation, and presentation give students an opportunity to apply physics to a theoretical or experimental project or to the design and construction of apparatus.
The program for physics majors retains flexibility in that a student who does not intend a profession in physics may, at the discretion of the department head, replace up to six credit hours of physics courses numbered above 300 with courses numbered above 300 in other science fields.

II. Physics courses for majors in other fields. As a service to other departments, and to meet the expectations of the college core curriculum, two separate basic physics sequences are individually designed to meet the requirements of specific groups of disciplines. All basic physics sequences have concomitant laboratories.

For non-science majors and biology majors, PHYS 203/253 and PHYS 204/254 (College Physics) constitute a survey sequence which emphasizes basic principles, as well as some exciting developments of modern technology.

For the students majoring in physical sciences, engineering, mathematics, and those preparing to be secondary school teachers in general science or physical science, PHYS 221/271 and PHYS 222/272 (Physics with Calculus) cover the fundamental principles of physics using more advanced mathematical tools. Additional, related topics (in mathematics and data analysis) are covered in two accompanying courses, PHYS 231 and PHYS 232 (Applications of Physics with Calculus).

PHYS 223/233/273 is a continuation of this sequence covering modern physics and research tools. Descriptive courses in foundations of astronomy, ASTR 105, 106, 155, 156, and in elementary astronomy, ASTR 201 and ASTR 202; flight, PHYS 241; and meteorology, PHYS 243 are provided as electives.

A student may not use both PHYS 203/204 and PHYS 221/222 in meeting degree requirements, nor can a student take the 203/204 sequence after completing PHYS 221/222. However, should a student whose major does not require PHYS 221/222 complete PHYS 203/204 and then decide, for whatever reason, to complete the calculus-based sequence, PHYS 221 and 222 may satisfy General Elective requirements.

All undergraduate courses taken at The Citadel with a subject prefix of PHYS will count towards the major GPA.

Minor in Aerospace Science

Objectives:
The minor in aerospace science is designed to allow a student an opportunity to acquire an understanding of aerodynamics in the broad sense. The physics of flight, of propulsion, and of the atmosphere will be addressed through an understanding of fluid dynamics. This minor can be taken by students with the approval of the department head.

Competencies, Knowledge, or Skills to be Achieved:
Completing this minor will provide an understanding of the basic principles of fluid dynamics as it applies to the flight of aircraft, their lift, thrust, stability, and control, as well as the atmosphere in which that aircraft flies. The principles of fluid dynamics will be also applied to hydrodynamics and the “flight” of boats and ships in and on the sea. External and internal fluid flow is covered such that propulsion systems will be addressed.
Structure of the Minor:

1. **Required Courses:** (5 credit hours)
   - AESC 150  1  Principles of Aviation
   - PHYS 241  3  Physics of Flight
   - PHYS 293  1  Flight Simulation

2. **Elective Courses:** (11 credit hours of which only 3 can be at the 200 level)
   - AESC 160  3  Introduction to Pilot Training
   - PHYS 243  3  Meteorology for Aviators
   - PHYS 291  2  Fluids Laboratory
   - PHYS 315  3  Classical Mechanics
   - PHYS 341  3  Fundamentals of Aerodynamics
   - PHYS 343  3  Applied Climatology
   - PHYS 441  3  Fluid Dynamics
   - ASTR 201  3  Sun and Planets
     Or
   - ASTR 202  3  Stars and Galaxies

3. **Projected Course of Study**

   **Total Credit Hours Required** --16, at least 9 of which must be completed at The Citadel

   **Note:** Students majoring in Physics may apply only one required physics course to both the Physics Major and the Aerospace Minor.

   For further information, please contact the Department of Physics.

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**Minor in Applied Physics**

**Objectives:**
The minor in applied physics is designed to allow a student not majoring in physics the opportunity to learn many of the techniques of experimental physics and to obtain an exposure to the principles of modern physics.

**Competencies, Knowledge, or Skills to be Achieved:**
A student pursuing a minor in applied physics will become competent in the techniques of experimental physics. Skills in applied optics, electronics, fluid flow, solid state, laboratory and experimental techniques will be emphasized.

**This minor is not approved for students majoring in physics.**

**Structure of the Minor:**

1. **Required Courses:** (7 credit hours)
   - PHYS 223/233/273  5  Modern Physics
   - PHYS 451  2  Advanced Laboratory Physics

2. **Elective Courses:** (9 credit hours)
   Choose three:
   - PHYS 241  3  The Physics of Flight
   - PHYS 243  3  Meteorology
   - PHYS 308/358  4  Optics
   - PHYS 315  3  Analytical Mechanics
   - PHYS 341  3  Fundamentals of Aerodynamics
3. **Projected Course of Study**

Students are expected to have had two semesters of calculus as well as Physics 221/271 and 222/272 (or approval of the department head).

**Total Credit Hours Required**—16, at least 9 of which must be completed at The Citadel (plus two semesters of calculus and two semesters of Physics with Calculus).

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**Physics Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101</td>
<td>Introduction to Physics</td>
<td>Three</td>
</tr>
<tr>
<td>PHYS 203</td>
<td>College Physics I</td>
<td>Three</td>
</tr>
<tr>
<td>PHYS 204</td>
<td>College Physics II</td>
<td>Each</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Physics with Calculus, I</td>
<td>Each</td>
</tr>
<tr>
<td>PHYS 222</td>
<td>Physics with Calculus, II</td>
<td>Each</td>
</tr>
</tbody>
</table>

**PHYS 101  Introduction to Physics**

Required of most freshmen majoring in physics.

An elementary course consisting of lectures on physics topics in their historical context from Galileo to the present. Covers fundamental techniques which are useful for learning this discipline and the conduction of research. Class notes and library reading will be required.

Lecture: three hours.

**PHYS 203 and PHYS 204 College Physics I and II**

Prerequisite or corequisite for PHYS 203: PHYS 253
Prerequisite for PHYS 204: PHYS 203 and PHYS 253

This course presents physics in a manner suitable for students who do not have a strong background in mathematics. The course is designed primarily to help the non-scientist act in an informed way in today’s technically oriented society. Topics covered in the two-semester course include mechanics, thermodynamics, electromagnetism, optics, and modern physics.

Lecture: three hours.

**PHYS 221 and PHYS 222  Physics with Calculus, I and II**

Prerequisites for PHYS 221: MATH 131, MATH 107, or HONR 131 (May be taken concurrently with MATH 131 with permission of the head of the Department of Physics).

Prerequisite for PHYS 222: PHYS 221

Calculus-based introductory physics sequence designed to address the needs of students majoring in engineering and sciences. Kinematics, dynamics, electricity and magnetism, fluid statics and dynamics, thermodynamics and optics covered with no assumption of prior knowledge of physics.

Lecture: three hours.
PHYS 223  *Modern Physics*  Three Credit Hours

Prerequisites: PHYS 221 and PHYS 222.

Required of all physics majors and minors; open to others as an elective. A continuation of the 221/222 physics sequence.

The course material covers a selection of topics from twentieth century physics. It progresses from Maxwell equations, propagation of electromagnetic waves, and the wave theory of light to the elements of special relativity, early quantum theory of radiation, then to the principles of quantum mechanics. It discusses the fundamental experiments in modern physics and the principal discoveries in the area of atomic, solid state, nuclear and elementary-particle physics.

Lecture: three hours

PHYS 231, PHYS 232  *Applications of Physics with Calculus, I and II*  One Credit Hour  Each Semester

Corequisite or prerequisite for PHYS 231: PHYS 221
Corequisite or prerequisite for PHYS 232: PHYS 222

Supplementary introductory physics course designed to address the needs of students majoring in sciences and to prepare them for upper-division physics courses in mechanics, thermodynamics and electromagnetism, and the conduction of research.

Lecture: one hour

PHYS 233  *Applications of Modern Physics*  One Credit Hour

Corequisite or prerequisite: PHYS 223.

Supplementary introductory physics course designed to address the needs of students majoring in sciences and to prepare them for upper-division physics courses in optics and quantum mechanics, and the conduction of research.

Lecture: one hour

PHYS 241  *The Physics of Flight*  Three Credit Hours

The flight of heavier than air vehicles is a wonder and a marvelous application of the principles of physics. This course is an introduction to the theory and application of aerodynamics, the study of air in motion. It provides an introduction to the physical principles of flight. The primary goals are to acquire an understanding of the basic principles, elementary models, and applications of aerodynamics as they apply to the study of heavier than air flight. Students who have a knowledge of algebra have the prerequisites for the level at which this course is taught. Students who want to understand how planes fly or who have a desire to be a pilot will find this course useful.

Lecture: two hours.
Laboratory: two hours

PHYS 243  *Meteorology for Aviators*  Three Credit Hours

Meteorology is the science of weather and climate. The material covered will include a study of the pressure, temperature, and density profiles of the atmosphere and the development of temperature, pressure, and moisture variances from the standard atmosphere. Winds, clouds, and temperature changes will be studied. Rain, snow, fog, storms, the jet stream, optical effects, and their application to flight will be addressed. There are no explicit prerequisites, but knowledge of basic algebra is needed.

Lecture: three hours.
PHYS 244  *Extreme Weather and Climate*  Three Credit Hours

The study of extreme and hazardous weather and the unusual climate phenomena that alter weather patterns. Students will investigate the composition, characteristics, and processes in the atmosphere, which can lead to severe weather events, such as heat waves, cold spells, floods, tornadoes, hurricanes, and lightning. Climatic variability and change, which alter the frequency and severity of these weather hazards will also be explored.

Lecture: three hours.

PHYS 253 and PHYS 254  *Physics Laboratory for College Physics I and II*  One Credit Hour  Each Semester

- Prerequisite or corequisite for PHYS 253: PHYS 203
- Prerequisite or corequisite for PHYS 254: PHYS 204

These laboratories are designed to correlate with the lecture material in PHYS 203 and PHYS 204, respectively. The experiments are designed to illustrate and emphasize the physical phenomena discussed in the corresponding lecture courses.

Laboratory reports stress competencies in writing and quantitative skills.

Laboratory: two hours.

PHYS 271, PHYS 272  *Laboratory for Physics with Calculus, I and II*  One Credit Hour  Each Semester

- Corequisite for PHYS 271: PHYS 221
- Corequisite for PHYS 272: PHYS 222.

The laboratories parallel and supplement the lecture material in PHYS 221 and PHYS 222, respectively. The laboratories utilize modern measuring equipment including computer interface experiments, oscilloscopes, spectrosopes, etc. PHYS 271 concentrates on the fundamental concepts of physics and their application to the study of material properties. PHYS 272 concentrates on the procedures and techniques used in the experimental laboratory. Emphasis is placed on proper experimental technique, error analysis, and technical report writing. Experiments represent all the areas of physics included in the lecture: measurement, statics, linear and rotational dynamics, wave phenomena, sound, light, thermodynamics, electricity, magnetism and geometric optics.

Laboratory reports stress competencies in writing and quantitative skills.

Laboratory: two hours.

PHYS 273  *Modern Physics Laboratory*  One Credit Hour

- Prerequisites: PHYS 271 and PHYS 272.
- Required of all physics majors and minors; open to others with the permission of the instructor.

This lab concentrates on the role of the apparatus and technology in the experimental laboratory. Experiments include student versions of several fundamental experiments of modern physics. Students are also introduced to research which is conducted within the department.

Laboratory: two hours.
PHYS 291  *Fluids Laboratory*  
Two Credit Hours  
Prerequisite: PHYS 241  
Can be used toward the Aerospace Science Minor.  
Fluid dynamics is the study of fluids in motion. This laboratory course concentrates on the role of the wind tunnel and computational fluid dynamics (CFD) in the study of fluid flow around or through scaled models.  
Laboratory: four hours.

PHYS 293  *Flight Simulation*  
One Credit Hour  
Prerequisite: PHYS 241  
Can be used toward the Aerospace Science Minor.  
Fluid dynamics is the study of fluids in motion. The effect of aerodynamic flow on the control and stability of an aircraft will be studied using the physics engines (aerodynamics calculation model) which powers flight simulation software packages such as Flight Simulator or X-Plane. Effects studied in PHYS 241, The Physics of Flight, will be observed using flight simulators.  
Laboratory: two hours.

PHYS 301  *Biological Physics*  
Three Credit Hours  
Prerequisites: PHYS 204 and PHYS 254; MATH 107 or MATH 132  
The applications of physics to the processes occurring in living systems. Among the topics to be discussed will be bioenergetics, radiation, biophysics, sensory biophysics, and bioelectricity. Attention also will be given to biomedical instrumentation.  
Lecture: three hours.

PHYS 307  *Electronic Instrumentation*  
Three Credit Hours  
Prerequisites: PHYS 222 and PHYS 272; MATH 107 or MATH 132  
Corequisite: PHYS 357  
Required of all physics juniors.  
Brief review of DC and AC circuits. Introductions to theory and applications of solid-state diodes, transistors and other semiconductors, amplifiers, waveform generators, operational amplifiers, transducers, and digital electronics.  
Lecture: three hours.

PHYS 308  *Optics*  
Three Credit Hours  
Prerequisites: PHYS 222 and PHYS 272; MATH 107 or MATH 132  
Required of all physics juniors.  
Principles of geometrical and physical optics presented with attention to engineering applications. Topics covered include geometrical imaging, ray analysis, fiber optics, interferometry, thin film optical filters, polarization, Fourier optics, diffraction, and coherence theory. Matrix methods are applied to lens systems, thin films, and polarization.  
Lecture: three hours.

PHYS 315 and PHYS 316  *Analytical Mechanics*  
Three Credit Hours  
Each Semester  
Prerequisites: PHYS 222 and PHYS 272; MATH 231  
Required of all physics juniors.  
Statics and dynamics of rigid bodies, Lagrangian and Hamiltonian dynamics, collision kinematics, central-force motion, oscillating systems, introduction to relativity.  
Lecture: three hours.
PHYS 319  Research Planning                    Two Credit Hours
   Required of all physics seniors.
   An outstanding recent development in physics is chosen by one or more students
   and studied intensively. Also addressed is the role of ethics in scientific research.
   Lecture: one hour
   Laboratory: two hours.

PHYS 320  Mathematical Physics                Three Credit Hours
   Prerequisites: PHYS 222 and PHYS 272; MATH 231
   Required of all physics juniors.
   Emphasis on mathematical methods of theoretical physics. Topics may include
   coordinate transformations, vector calculus techniques, special functions, definite
   integrals, approximations, numerical methods of data reduction, eigenvalue problems,
   boundary-value problems, representation theory, perturbation theory.
   Lecture: three hours.

PHYS 341  Fundamentals of Aerodynamics        Three Credit Hours
   Prerequisites: PHYS 222 and PHYS 272; MATH 107 or MATH 132
   This course provides an introduction to the aerodynamics of heavier than air
   flight. It will be presented at the level suitable for technical majors who have taken
   at least the first two semesters of calculus and the first two semesters of calculus
   based introductory physics. Although not a prerequisite, PHYS 241 is a useful
   introduction to the concepts more deeply studied in this course. Introduction and
   fundamental principles and understanding of inviscid and viscous incompressible
   flow, and inviscid compressible around airfoils, through engine nozzles and dif-
   fusers will be covered.
   Lecture: three hours.

PHYS 343  Applied Climatology                  Three Credit Hours
   Prerequisite: PHYS 243
   Applied Climatology is a survey of the weather systems that contribute in the
   aggregate to world climates and their cumulative influence on Earth systems.
   Included are presentations from an historical perspective on the development of
   past climatic regimes, the transition to present-era climate, and the atmospheric
   dynamics involved in the global change process. Emphasis is placed on develop-
   ing a broad-based working knowledge of the impacts present day climate and
   climate-trend changes have on human activities including aviation-related practices,
   procedures, and operations.
   Lecture: three hours

PHYS 357  Electronic Instrumentation Laboratory One Credit Hour
   Corequisite or prerequisite: PHYS 307
   Required of all physics majors.
   Laboratory parallels and supplements lecture material in PHYS 307.
   Laboratory: two hours.
PHYS 358  **Optics Laboratory**  One Credit Hour
Corequisite or prerequisite: PHYS 308
Required of all physics majors.
Laboratory parallels and supplements lecture material in PHYS 308.
Laboratory: two hours.

PHYS 403 and  **Electrodynamics I and II**  Three Credit Hours
PHYS 404  Each Semester
Prerequisites: PHYS 222; MATH 231
Prerequisite or corequisite: PHYS 320
Required of all physics seniors.
The electrostatic field and its effect on matter, the properties of magnetic fields
and magnetic materials, electromagnetic effects, vector potentials, displacement
currents, Maxwell’s equations, Lorentz force on particles, periodic currents.
Lecture: three hours.

PHYS 405 and  **Quantum Mechanics**  Three Credit Hours
PHYS 406  Each Semester
Prerequisites: PHYS 223, PHYS 308, PHYS 316
Prerequisite or corequisite: PHYS 320
Required of all physics seniors.
An introductory course in quantum mechanics with emphasis on both physical
principles and mathematical techniques. Stress is placed on understanding how
quantum mechanics is used in explaining the behavior of physical systems.
Lecture: three hours.

PHYS 409  **Intermediate Optics**  Three Credit Hours
Corequisite or prerequisites: PHYS 308 and MATH 234
This course is a continuation of Optics PHYS 308. It develops the Fourier
analysis approach to physical optics. Topics covered include the optical transfer
function, the wave theory of aberrations, spatial filtering, holography and applica-
tions, fiber optics, and nonlinear optics.
Lecture: three hours.

PHYS 410  **Thermodynamics**  Three Credit Hours
Prerequisites: PHYS 222 and PHYS 272; MATH 107 or MATH 132
Required of all physics seniors.
Principles of thermodynamics presented with attention to engineering, chemical,
and biological applications. First and Second Laws of Thermodynamics, especially
as applied to closed hydrostatic systems and open steady-flow systems. Concepts
of internal energy, heat flow, enthalpy, and entropy. Perfect gas processes. Carnot
cycle for heat engines, heat pumps, refrigerators. Power output; mass flow equa-
tions; quality factor for mixed systems.
Lecture: three hours.
PHYS 415  Special Topics in Physics  Three Credit Hours
Prerequisites: Permission of instructor.
Topics may vary by semester according to student interest and availability of instructor. The subject for a semester will be chosen from such topics as space physics, special relativity, fluid dynamics, and solid state physics.
Lecture: three hours.

PHYS 416  Advanced Topics in Physics  Three Credit Hours
Prerequisites: Permission of instructor.
Similar to PHYS 415. The subject for a semester will be chosen from such advanced topics as group theory in quantum mechanics, magnetic resonance, propulsion, and plasma physics.
Lecture: three hours.

PHYS 420  Research Participation  Three Credit Hours
Prerequisite: PHYS 319
Required of all physics seniors.
The project started in PHYS 319 (Research Planning) is completed to include a written thesis and an oral presentation.
Lecture: one hour.
Laboratory: four hours.

PHYS 421  Research Presentation  Two Credit Hours
Using the research started in PHYS 319 and completed in PHYS 420, a dissertation will be written and a seminar will be presented before the faculty and student body of the department. Writing a paper for scientific journals, writing a dissertation for graduate school requirements, and presenting a paper at a scientific meeting will be emphasized.
Lecture: one hour
Laboratory: two hours.

PHYS 441  Fluids Dynamics  Three Credit Hours
Prerequisite: PHYS 341
Can be used toward the Aerospace Science Minor.
Fluid dynamics is the study of fluids in motion, both gases and liquids. This course develops the integral, differential, and computational approaches to calculating the effects which fluids have as they pass over or through an object.
Lecture: three hours.

PHYS 451  Advanced Laboratory Physics  Two Credit Hours
Required of all physics seniors.
Experiments selected from famous fundamental measurements.
Laboratory: four hours.
Astronomy Course Descriptions

ASTR 105  
*Foundations of Astronomy: The Solar System*
Three Credit Hours
Corerequisites: ASTR 155
The scientific and historical development of Astronomy, concentrating on the study of the Solar System. No prerequisites. Topics include our place in the Universe, the history of Astronomy, the Earth-Sun-Moon system, Solar System formation, and a scientific description of planets, asteroids and comets.

ASTR 106  
*Foundations of Astronomy: Stars and Galaxies*
Three Credit Hours
Corerequisites: ASTR 156
The scientific and historical development of Astronomy, concentrating on the study of stars and galaxies. No prerequisites. Topics include our place in the Universe, the history of Astronomy, the Earth-Sun-Moon system, stellar properties, classification of galaxies, evolution of normal and large stars, neutron stars and black holes, cosmology.

ASTR 155  
*Foundations of Astronomy Laboratory: The Solar System*
One Credit Hour
Corerequisites: ASTR 105
Experiments used by astronomers and astrophysicists to develop theories about our Universe. No prerequisites. Topics include telescopes, spectroscopy, Kepler's Laws, planetary cratering, magnetism and material properties.

ASTR 156  
*Foundations of Astronomy Laboratory: Stars and Galaxies*
One Credit Hour
Corerequisites: ASTR 106
Experiments used by astronomers and astrophysicists to develop theories about our Universe. No prerequisites. Topics include telescopes, spectroscopy, Kepler's Laws, stellar classification, globular clusters and Hubble’s Law.

ASTR 201  
*Introduction to Astronomy: Sun and Planets*
Three Credit Hours
A descriptive introduction to the universe, our sun and its solar system, the Earth and the other planets, asteroids, and comets. Practical observational astronomy. Planetary discoveries made by space craft. Life in the universe.
Lecture: three hours.

ASTR 202  
*Introduction to Astronomy: Stars and Galaxies*
Three Credit Hours
The universe outside the solar system, the sun as a typical star, the Milky Way and other galaxies, pulsars, quasars, and black holes are studied.
Lecture: three hours.
ASTR 240  Astrobiology: The Search for Life in the Universe
Three Credit Hours
Prerequisites: PHYS 203 and 253 or PHYS 221 and 271
We will begin our study of the new science of astrobiology with general topics such as current theories of the rise of habitability and life on Earth, distribution of complex organic molecules in the universe and definition of habitability as regards other planets and star systems. We will then move into specialized topics relating to current research themes in astrobiology: potentially habitable zones in the Solar System -- oceans of the Jovian satellites, potentially wet regions of Mars, Enceladus; other places of interest, such as Venus and Titan; current limits of life on Earth -- Earth extremophiles, including Antarctic cryptoendoliths as a case study; potentially habitable zones in other star systems; the search for extrasolar planets.
Lecture: three hours.

ASTR 412  Stellar and Galactic Astrophysics
Three Credit Hours
Prerequisites: PHYS 221 and MATH 132
The structures, atmospheres, dynamics, and evolutions of stars; the techniques of stellar abundance analysis and spectral classification; the reduction, eigenvalue problems, boundary-value problems, representation theory, and perturbation theory.
Lecture: three hours.
PHYSICS MAJOR
First Semester

FRESHMAN YEAR
First Year Experience .................................. LDRS 101 1 (2,0)*
Freshman Seminar .................................. FSEM 101 3 (3,0)
Freshman Linked Writing Intensive .................. FSWI 101 3 (3,0)
Introduction to Physics ............................... PHYS 101 3 (3,0)
Analytic Geometry and Calculus I ................... MATH 131 4 (4,0)
Modern Language .................................. 3 (3,0)
1st Year Basic ROTC .................................. 101 1 (1,0)

SOPHOMORE YEAR
Sophomore Seminar in Principled Leadership LDRS 201/1 (1,0)
(211 may be taken either semester) ................ LDRS 211 0 (0,1)
Technical Writing and Communication .......... COMM 260 3 (3,0)
Physics with Calculus II ............................ PHYS 222 3 (3,0)
Application of Physics with Calculus II ......... PHYS 232 1 (1,0)
Laboratory for Physics with Calculus II ......... PHYS 272 1 (0,2)
**Approved Elective .................................. 3 (3,0)
Analytic Geometry and Calculus III .............. MATH 231 4 (4,0)
2nd Year Basic ROTC ................................ 201 2 (2,0)

JUNIOR YEAR
Junior Ethics Enrichment Experience ............. LDRS 311 0 (1,0)
Strand History ....................................... HISS 30x 3 (3,0)
Analytical Mechanics I ............................ PHYS 315 3 (3,0)
Optics ................................................ PHYS 308 3 (3,0)
Optics Laboratory .................................. PHYS 358 1 (0,2)
Mathematical Physics ............................... PHYS 320 3 (3,0)
**Approved Elective .................................. 3 (3,0)
Required Physical Education ..................... RPED 0 (0,1)
1st Year Advanced ROTC ............................

SENIOR YEAR
Senior Leadership Integration Seminar .......... LDRS 411 0 (1,0)
Quantum Mechanics I ................................ PHYS 405 3 (3,0)
Thermodynamics ...................................... PHYS 410 3 (3,0)
Research Participation ............................. PHYS 420 3 (1,4)
***General Chemistry I ............................. CHEM 151 3 (3,0)
***General Chemistry I Laboratory ............... CHEM 161 1 (0,2)
Strand Elective ...................................... ELES 30x 3 (3,0)
2nd Year Advanced ROTC ...........................

*Represents semester credit, lecture, and lab hours, in that order.
**Approved Electives: Determined by the student career goals through consultation with Student
Faculty Advisor and permission of the Physics Department Head.
***BIOL 130/131, 140/141 may be substituted for CHEM 151/161, 152/162 with the permission of
the Physics Department Head.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course and Description</th>
<th>Code</th>
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<td>Applications of Modern Physics</td>
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Note: CHEM 151/161 or BIOL 130/131 satisfy the Science Strand requirement.

REQUIRED FOR GRADUATION: 128 credit hours plus successful completion of all RPE, ROTC, and LDRS graduation requirements. ROTC hours (credits, lectures, and labs) vary each semester by military department.
Department of Leadership Studies

Department Head: Rivers James
Professor: Rivers James
Associate Professor: Smith

The mission of the Department of Leadership Studies is to enhance the ability of students from any academic background to perform effectively as principled leaders in their chosen field of work. The program utilizes core leadership courses and interdisciplinary courses to engage students in broad learning about leadership in applied contexts. At various points, the interdisciplinary curriculum allows students to tailor the focus of their study toward individual and career interests.

The Department oversees credit-bearing academic leadership courses (LDRS-prefix), including the Sophomore Seminar in Principled Leadership (LDRS 201) and Leadership in Organizations (LDRS 371) required of all cadets. A minor in Leadership Studies addresses learning, scholarship, and critical thinking about leadership from various analytical perspectives and, as a result, gives students a broad understanding of the nature of effective, ethical leadership. This academic minor complements the “leadership laboratory” aspect of cadet life at The Citadel. All upper level Leadership Studies courses and Leadership minor courses serve as ROTC fulfilment classes for juniors and seniors in residence.

Minor in Leadership Studies

The minor in Leadership Studies consists of courses from the Department of Leadership Studies and a number of other academic departments. The minor highlights and reinforces the centrality of leadership in the Citadel experience. The minor in Leadership Studies is intended for students who wish to supplement their study with a scholarly consideration of the subject of leadership, as applied to their major field. Leadership Scholars will undertake a minor in Leadership Studies.

Objectives:

The minor in Leadership Studies addresses learning concepts and critical thinking about leadership from various analytical perspectives and, as a result, gives students a broad understanding of the nature of effective, ethical leadership. This minor complements the “leadership laboratory” aspect of cadet life and the development of leadership skills gained through required leadership courses at The Citadel. The minor focuses on building an understanding of the nature and concepts of leadership through interdisciplinary study employing historical, political, literary, psychological, and organizational approaches to the subject. Whereas ROTC courses and participation in the structured, hierarchical regimen of the Citadel Corps of Cadets teach the students discipline, perseverance, respect for
authority, and the ability to lead, the minor in Leadership Studies builds on those practical experiences with a scholarly focus on the subject. Looking at the dynamics and theoretical models of leadership, the various courses examine leadership questions and challenges, not only with respect to effectiveness, but also in their ethical aspects—such as diversity and inclusion, power dynamics, and questions of duty versus individual responsibility.

Structure of the Minor:
The minor in Leadership Studies consists of five courses (15 credit hours total): Leadership in Organizations (LDRS 371); Experiential leadership course (LDRS 433(W), 433(1), and 433(2)); Senior Leadership Seminar/Project (LDRS 401); as well as two approved academic electives from the schools/departments of Education; English; History; Leadership Studies; Health and Human Performance; Political Science; and Psychology. The list of approved minor courses is provided below. Please review the various Department sections to identify pre-requisites for any of the Leadership Studies minor courses.

Required Courses (6 hours)
- LDRS 371 Leadership in Organization
- LDRS 401 Senior Leadership Seminar/Project

Academic Electives (Choose 2 for a total of 6 hours)
- MGMT 311 Human Resource Management
- MGMT 315 Business Ethics
- MGMT 307 Leading Inclusion & Diversity
- BIOL 292 Leadership for Environmental Sustainability
- EDUC 330 Developing Leadership Skills through Peer Counseling
- ENGL 371 Literary Paradigms of Leadership
- HIST 371 Historical Studies in Leadership
- HIST 382 History of Military Leadership
- LDRS 320 Leadership Communications
- LDRS 433(3) Special Topics in Leadership – Seminar
- NURS 404 Nursing Leadership
- PESM 404 Leadership in Health, Exercise, and Sport Science Organizations
- PHIL 290 Ethics
- PSCl 371 Leadership in Politics
- PSCI 305 American Presidency
- PSCI 306 Legislative Process
- PSYC 371 Psychology of Leadership
- PGMT 401 Project Management Career Skills

Experiential Course in Leadership (Choose 1 for a total of three hours):
- LDRS 433(1) or (2) Special Topics in Leadership – Leadership in Community Engagement
- LDRS 433(W) Special Topics in Leadership – Leadership Abroad
Experiential courses in Leadership may include study abroad, study away, internships, service learning, or Faculty-directed research. Students must submit proposals to undertake and apply Experiential Courses towards the leadership minor degree to the Department of Leadership Studies for advanced approval.

*Total Credit Hours Required:* 15, at least 9 of which must be completed at The Citadel.

**Leadership Course Descriptions**

**LDRS 201 Sophomore Seminar in Principled Leadership**  One Credit Hour

Required of all second-year cadets, this course incorporates The Citadel core values of honor, duty, and respect as those values constitute principled leadership. The course also assists cadets in the process of transitioning from the freshman year to the sophomore year and enables them to reflect upon their experiences of the Citadel’s fourth-class system as they learn more about effective, ethical leadership. Students will study ethics in context of their experience in the South Carolina Corps of Cadets, their future careers, and community engagement. This course is a graded, one-hour course that must be completed in order to graduate.

**LDRS 202 Principled Leadership in American Government and Society**  Three Credit Hour

An interdisciplinary examination of civic leadership and ethics in America from the founding of the country to the present. The course will consider the basic frameworks of Citizen-leadership through the creation and implementation of central documents of governance. Students will explore the leadership process and principled leadership through case studies of American leaders who defend and advance America’s fundamental principles amidst the needs of changing times. This course is a graded, three-credit hour course. This course is a graduation requirement for all members of the Class of 2024.

**LDRS 320 Leadership Communications**  Three Credit Hours

Prerequisite: LDRS 201

Leadership Communications will focus on an understanding of effective leader communications based on analysis of speeches and writings. This course requires critical thinking to analyze and develop leader intent and messages. The course will also examine multimedia tools available to leaders and will address opportunities and challenges of using technology in achieving effective leadership.
LDRS 371  Leadership in Organizations  Three Credit Hours
   Prerequisite: LDRS 201 or LDRS 202
   This course considers various theories of leadership and their role in critical
   organizational issues, including leader effectiveness, ethics, power, influence, poli-
   tics, teamwork, motivation, creativity, innovation, communication, conflict, strategy,
   diversity, and leadership development. The course uses case studies and experiential
   components to provide hands-on learning and practice opportunities in business,
   political, and social justice contexts. This course is a graded, three-credit hour
   course. Successful completion of the Leadership in Organizations is a graduation
   requirement for non-contracting students in the Class of, 2021, and 2022. The
   course is a graduation requirement for all members of the Class of 2023 and 2024.

LDRS 401  Senior Leadership Seminar/Project  Three Credit Hours
   Prerequisite: LDRS 371 (Enrollment is limited to Leadership Studies minor
   students.)
   Candidates for the Leadership Studies minor will work closely with the professor
   on an independent study project dealing with a leadership issue or challenge and
   with the application of principled leadership. The student will write a case study
   or research project of approximately 20 pages discussing a specific leadership issue
   or problem. Students will make a presentation on the problem or research question
   presented, methods of research, as well as project strategy, solutions, and results.
   Students will deliver the presentation in class and, at the discretion of the profes-
   sor, in other forums, such as Citadel meetings, research symposia, or professional
   conferences. Generally this course will be undertaken during the final year of study.

LDRS 433  Special Topics in Leadership  Three Credit Hours
   Prerequisite: LDRS 201, LDRS 211
   Selected topics or problems in the general area of leadership; offered periodi-
   cally as the special interests of faculty and students permit.

Leadership Experience Labs and Seminars

   The Krause Center for Leadership and Ethics offers a variety of leadership
   and professional development programs for all cadets. These experiences are a
   key component of an integrated curriculum designed to help students develop
   leadership competencies through community service and engagement, exercise
   ethical decision-making, and integrate principled leadership in their future profes-
   sional careers. Successful completion of these experiences constitutes an important
   graduation requirement.

   In support of strategic commitments to service learning and development of
   principled leaders, The Citadel's annual Leadership Day is an opportunity for Citadel
   students to engage in service projects, seminars, and trainings. All activities on
   Leadership Day provide students with meaningful experiential learning opportunities.
LDRS 211 Sophomore Service Learning Lab  
Graduation Requirement  (0 Credit Hours)

The Sophomore Service Learning Lab provides cadets with a hands-on learning experience in the community. Students will select an approved service learning option to complete a minimum of ten hours of service. Students will select service sites based on their interests and availability. Service hours must be documented in GivePulse and verified by the Krause Center Service Learning & Civic Engagement (SLCE) team. This pass/fail course is offered in the fall semester, spring semester, or with professor approval in the summer. Students studying abroad may be able to complete this course while abroad, depending on location. Please contact the SLCE team or Office of Study Abroad to determine eligibility.

LDRS 311 Junior Ethics Enrichment Experience (JEEE)  
Graduation Requirement  (0 Credit Hours)

The Junior Ethics Enrichment Seminar is a one-day experiential seminar that develops ethical decision-making skills. Students learn how to resolve complex ethical challenges and discuss the importance of character in becoming ethical leaders. Generally, this seminar will be completed on Leadership Day during the fall semester. Students who are unable to attend LDRS 311 on Leadership Day must take the course during the spring semester. Completion of the Junior Ethics Enrichment Seminar is a graduation requirement.

LDRS 411 Senior Leadership Integration Seminar  
Graduation Requirement  (0 Credit Hours)

LDRS 411 is a full-day professional development seminar that allows cadets to examine their personal values and the leadership lessons learned at The Citadel in the context of their future career goals. Students engage with business, government, and community partners to connect classroom learning with the professional world. Generally, this seminar will be completed on Leadership Day during the fall semester. Students who are unable to attend LDRS 411 on Leadership Day must take the course during the spring semester. Completion of the Senior Leadership Integration Seminar is a graduation requirement.

For further information about leadership experience labs and seminars, please contact the Krause Center for Leadership and Ethics, located in Richardson 201 (behind Bond Hall), (843) 953-5815 or email krausecenter@citadel.edu
Department of Aerospace Studies

Department Head: Morand
Professor: Morand
Assistant Professors: Thurber, Specht, Varner, Loomis, Dewey, Melton

Citadel Air Force ROTC courses feature a wide variety of instruction and training opportunities. During the freshman and sophomore years, the curriculum provides students with an understanding of air power’s past, present, and future roles in world affairs, as well as its relation to national defense. These courses cover the doctrine, mission, and organization of the United States Air Force and examine the development of air and space power from its inception to its uses today in contingency operations.

During the junior and senior years, the Air Force ROTC program instruction focuses on leadership and ethics principles, global studies, and prepares cadets for active duty entry. Included are communicative skills, professional responsibility, the military justice system, functions and practices of leadership and management principles, and problem solving.

Air Force Course Descriptions

AERO 101  Heritage and Values of the U.S. Air Force  One Credit Hour
(Fall Semester—Fourth Class Year)
Heritage and Values of the US Air Force and its follow-on is course providing the student with an introductory survey of the United States Air Force (USAF) and the Air Force Reserve Officer Training Corps (AFROTC). In the first semester, the course begins with an introduction to AFROTC’s mission, the Air Force Core Values, the profession of arms, customs and courtesies as well as dress and appearance standards expected of all Air Force officers. It continues with discussion on Air Force speaking and writing overviews and career field briefings. The course concludes with an overview of service benefits and an introduction to team building and leadership. Case studies and video scenarios are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Communication skills are further developed through oral and written presentations. Leadership Laboratory is mandatory for AF ROTC contract/pursuing cadets and compliments this course by providing cadets with followership experiences.

Lecture: one hour
Lab: two hours (contract or cadets pursuing contracts only)
AERO 102  Heritage and Values of the US Air Force  One Credit Hour
(Spring Semester—Fourth Class Year)
Heritage and Values of the US Air Force is a survey course covering an introduction to the evolution of airpower and the basic characteristics of war. The course offers the student an opportunity to learn about the principles of war and tenets of airpower as well as the general construct of the Department of the Air Force. Students are introduced to Air Force Major Commands, Air Force guidelines on social media as well as knowing the distinct functions and various levels of doctrine as they relate to Air Force operations. Case studies and video scenarios are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Communication skills are further developed through oral and written presentations. Leadership Laboratory is mandatory for AFROTC contract/pursuing cadets and compliments this course by providing cadets with followership experiences.

Lecture: one hour
Lab: two hours (contract or cadets pursuing contracts only)

AESC 150  Principles of Aviation  One Credit Hour
This course provides a general introduction to history of flight, theory of flight, and foundational information for aspiring pilots. This course surveys the history of aviation, basic aerodynamics, aircraft performance, Federal Aviation Regulations, aviation weather factors and cross country navigation procedures. The course will also provide introductory information regarding radio navigation, radio communications procedures, human factors and aviation safety.

This course does not fulfill ROTC requirements.

This course satisfies credit requirements for Aerospace Science Minor (offered by the Department of Physics).

AESC 160  Introduction to Pilot Training  Three Credit Hours
Introduction to Pilot Training provides an in-depth review and study of history of flight, theory of flight, aerodynamics, aircraft systems, instruments, performance and procedures, weather, and navigational planning. This course meets the preparation requirements for the FAA Private Pilot computerized knowledge examination, a pre-requisite for an FAA Private Pilot License. It also includes foundational ground instruction for flight training through the Citadel Flying Club.

This course does not fulfill ROTC requirements.

This course satisfies credit requirements for Aerospace Science Minor (offered by the Department of Physics).

AERO 201  Team and Leadership Fundamentals  One Credit Hour
(Fall Semester—Third Class Year)
Team and Leadership Fundamentals is a survey course focused on laying the foundation for strong teams and sound leadership. The topics include skills that will allow cadets to improve their own leadership on a personal level, as well as within a team, starting with classes on the comprehension of how personality types can influence mission accomplishment. Classes on effective listening, followership, problem solving, motivation, standards and accountability as well as full-range leadership will aid the student in preparation for their field training experience.
Case studies and video scenarios are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Communication skills are further developed through oral and written presentations. Leadership Laboratory is mandatory for AF ROTC contract/pursuing cadets and complements this course by providing cadets not only followership and initial leadership opportunities, but also initial preparation for Field Training.

**Lecture:** one hour

**Lab:** two hours (contract or cadets pursuing contracts only)

**AERO 202  Team and Leadership Fundamentals  One Credit Hour**

(Spring Semester—Third Class Year)

Team and Leadership Fundamentals is a survey course focused on building teams, managing conflict, human relations and comprehensive Airman Fitness as it relates to stress management. The purpose is to instill a leader’s mindset and to motivate students to transition from AFROTC cadet to AFROTC officer candidate. Case studies and video scenarios are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Communication skills are further developed through oral and written presentations. Leadership Laboratory is mandatory for AFROTC contract/pursuing cadets and complements this course by providing cadets not only followership and initial leadership opportunities, but also initial preparation for Field Training.

**Lecture:** one hour

**Lab:** two hours (contract or cadets pursuing contracts)

**Field Training:** approximately 30 days (typically summer after sophomore year)

**AERO 301  Leading People and Effective Communication  Three Credit Hours**

(Fall Semester—Second Class Year)

Leading People and Effective Communication, a course for contracted cadets only, is a study of leadership and management fundamentals. Cadets will study decision making, change management, as well as learn Air Force writing techniques. The class will explore informative briefing requirements in addition to learning about the effective supervision of Airmen. Classes will receive perspectives from Noncommissioned Officers, and discuss topics such as equal opportunity, leading and thriving with diversity, cross-cultural competence, and cultural visual expeditionary skills training. Airmanship, Air Force heritage and cyber security will round out first semester coverage. Case studies video scenarios are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory compliments this course by providing advanced leadership experience in officer type activities, giving students the opportunity to apply the leadership and management principles of this course. Fall Semester requirements also include individual communications assignments. Students are required to research leadership topics and provide oral and written presentations in the Air Force formats.
AERO 302  Leading People and Effective Communication  Three Credit Hours
(Spring Semester—Second Class Year)

Leading People and Effective Communication, a course for contracted cadets only, is a continued in-depth study of leadership and management. Students will begin to hone their negotiation skills as well as learn the enlisted force structure to include feedback and mentoring processes, evaluation concepts, and professionalism. Leadership effectiveness, creating a vision, organizational climate and public affairs are also covered. Classes will be introduced to the Air Operations Center as well as Air Force Command and Control concepts. Air Force heritage and airpower theory is explored. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Spring Semester requirements also include individual communications assignments. Students are required to research leadership topics and provide oral and written presentations in Air Force formats. A mandatory Leadership Laboratory complements this course.

Lecture: three hours
Lab: two hours (contract or cadets pursuing contracts only)

AERO 401  National Security Affairs and Preparation for Active Duty I  Three Credit Hours
(Fall Semester—First Class Year)

This course covers the development of U.S. national security and military policies. The course begins with a discussion of the constitutional relationship between the Executive and Legislative Branches of government and the military. Other topics include Air Force doctrine; joint operations; terrorism and force protection; regional studies; and the Aerospace Expeditionary Force. Leadership Laboratory is mandatory for AFROTC contract cadets and complements this course by providing cadets with leadership and followership experiences as well as preparing the individual for active duty.

Lecture: three hours
Lab: two hours (contract or cadets pursuing contracts)

AERO 402  National Security Affairs and Preparation for Active Duty II  Three Credit Hours
(Spring Semester—First Class Year)

This course expands on the concepts introduced in AERO 401, with a continued emphasis on regional studies and the impact that international affairs may have on the U.S. National Security Policy. In addition, special topics are presented to prepare contract cadets for transition to active duty in the Air Force. Leadership Laboratory is mandatory for AFROTC contract cadets and complements this course by providing cadets with leadership and followership experiences as well as preparing the individual for active duty.

Lecture: three hours
Lab: two hours (contract or cadets pursuing contracts)
AERO 450  

*Air Force Leadership Laboratory*  
Zero Credit Hours  
(Fall & Spring Semesters—All Class Years)

This lab is designed to give insight into the Air Force and give leadership opportunities to cadets through a variety of experiences. Cadets are expected to perform a multitude of tasks in both the followership and leadership roles. Some topics include Air Force customs and courtesies, military commands, LEAD Training prep, preparation for active duty, and Air Force opportunities. Additionally, cadets gain leadership experiences in planning, organizing, and executing cadet-training activities; preparing and presenting briefings and other oral and written communications. This lab is graded on a **PASS or FAIL** basis and must be taken each semester by cadets on AF contract or those desiring to be on an AF contract.

Lecture: two hours
Department
of
Military Science

Department Head: Cyrulik
Professor: Cyrulik
Assistant Professors: Ditterso, Dubyoski, Hill, Jones, McCarty, Nieves, Taylor
Instructors: Brown, Chapman, Holdawan, Murphy

The Army ROTC program of instruction at The Citadel is geared toward teaching “hands-on skills” that are required of a new Second Lieutenant in the active Army, Army Reserve, or Army National Guard. Instruction at all levels centers around leadership. The program includes instruction in basic combat techniques, physical training, weapons, general military subjects, tactics, and communication skills. Selected cadets have the opportunities to attend military schools and unique training opportunities. In addition to the schooling opportunities, cadets will have the opportunity to serve as “Third Lieutenants” with an active Army unit for two to four weeks in the Cadet Troop Leadership Training (CTLT) Program. The Citadel also has one of the largest Simultaneous Membership Programs (SMP) in the nation. This program is a volunteer officer training program which allows Army National Guard and Army Reserve enlisted members to also participate in the Advanced ROTC course leading to a commission in one of the reserve components.

Military Science is a four-year program of instruction, divided into a two-year Basic Course and a two-year Advanced Course. The first year (Military Science I) addresses the role of the individual soldier through instruction and practical training in the areas of physical training, marksmanship, first aid, map reading, U.S. weapons, and leadership. The second year (Military Science II) builds upon the first, through the development of more advanced individual skills such as land navigation, basic individual combat techniques, and small unit tactics and leadership.

Students transferring into Army ROTC from another service and seeking a commission, or students at cross-town universities with a ROTC cross-enrollment agreement, that have not taken Army ROTC Basic course classes (MLTY 101 to 202) will attend the Basic Camp at Fort Knox, Kentucky prior to enrollment in the Army ROTC Advance Course. Basic Camp is a four-week basic instruction program designed to accommodate alternate entry into the Army ROTC Advance Course through hands-on training and granting of Basic Course credit upon successful completion.

The Army ROTC Advance Course is restricted to students contracted to commission in the Army and to students pursuing a contract to commission. Exceptions are granted on a case by case basis by the Professor of Military Science. Students not seeking a commission will take ROTC fulfillment courses offered by the college.

The first year of the Advanced Course (Military Science III) is primarily designed to train cadets to attend Advanced Camp, which takes place between their junior and senior years. The curriculum focuses on instruction and practi-
cal training exercises in advanced land navigation and map reading, individual military skills, principles and techniques of squad and platoon operations, the principles of organizational leadership, communications, fire support, U.S. Army weapons systems, and rigorous physical training. At the conclusion of their junior year, contracted cadets will attend Advanced Camp at Ft. Knox, Kentucky. Advanced Camp is based upon performance-oriented training and continuous leadership potential evaluation. Each cadet’s Advanced Camp evaluation is a principal determinate in branch selection and in being chosen for Active or Reserve Forces Duty.

The final year of the Advanced Course (Military Science IV) consists of instruction in solving contemporary leadership problems, principles of military justice, techniques of military writing, evolution of current tactics, precommissioning seminars, and military professionalism and ethics. The beginning of the senior year is the final opportunity for Citadel cadets to apply for a contract and seek an Army commission.

Cadets seeking commissions as Second Lieutenants in the United States Army are required to successfully complete a designated military history course, Advanced Camp, and ROTC Advanced Courses training. Cadets are highly encouraged to take courses in mathematical reasoning (Algebra, Trigonometry, Calculus, and Statistics), computer science, natural science (Biology, Geology, Chemistry or Physics), human behavior, management, and national security affairs to better prepare themselves for their futures as Army officers. Cadets enrolling in Military Science are provided a consolidated list of all academic courses offered by The Citadel that satisfy the professional military education requirement.

**Army Course Descriptions**

MLTY 101  **Leadership and Personal Development**  One Credit Hour

MLTY 101 introduces you to the personal challenges and competencies that are critical for effective leadership and communication. You will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. As you become further acquainted with MLTY 101, you will learn the structure of the ROTC Basic Course program consisting of MLTY 101, 102, 201, 202, Fall and Spring Leadership Labs, and Basic Camp. Scholarship cadets will register for MLTY 151, Army lab in conjunction with their Army course. **Only cadets classified as 4th-class cadets are authorized to enroll in this course.**

MLTY 102  **Foundations in Leadership**  One Credit Hour

MLTY 102 introduces you to the Army tactical concepts such as map reading, land navigation and general operations. It also focuses on the Army Leadership Model and explores these dimensions in detail. As you become further acquainted with MLTY 102, you will learn the structure of the ROTC Basic Course program consisting of MLTY 101, 102, 201, 202, Fall and Spring Leadership Labs, and Basic Camp. Scholarship, contracted, and seriously pursuing cadets will register for MLTY 152, Army lab in conjunction with their Army course. **Only cadets classified as 4th-class cadets are authorized to enroll in this course.**

MLTY 151/152/251/252/351/352/451/452
Army Contract Lab

This is the laboratory course which is required for all scholarship and contracted cadets; additionally, it is open for cadets who are actively pursuing an Army contract. This laboratory includes two Training Exercises a semester; during which cadets will learn leadership, small unit tactics, team building skills, and essential tasks that all soldiers are capable of doing. All training that occurs in these labs is received and disseminated through the Army’s Troop Leading Procedures and Orders process allowing cadets to refine necessary skills of a Second Lieutenant. All courses are Pass/Fail.

MLTY 201  Leadership and Decision Making  Two Credit Hours

MLTY 201 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced in planning, executing, and assessing team exercises. The focus continues to build on developing knowledge of the leadership attributes and core leader competencies through the understanding of Army rank, structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide a tangible context for learning the Soldier’s Creed and Warrior Ethos. Scholarship, contracted, and seriously pursuing contract cadets will register for MLTY 251, the Army Contract Lab, in conjunction with their Army course. Only cadets classified as 3rd class cadets are authorized to enroll in this course.

MLTY 202  Army Doctrine and Team Development  Two Credit Hours

MLTY 202 examines the challenges of leading tactical teams in the operational environment. The course highlights dimensions of doctrine, ethics and leader development. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MLTY 202 prepares cadets for MLTY 301. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills. Ethical and Culture Case studies give insight into the importance and practice of teamwork and decision making in real-world scenarios. Scholarship, contracted, and seriously pursuing cadets will register for MLTY 252, the Army Contract Lab, in conjunction with their Army course. Only cadets classified as 3rd class cadets are authorized to enroll in this course.

MLTY 301  Adaptive Team Leadership  Three Credit Hours

Prerequisites: MLTY 101, MLTY 102, MLTY 201, and MLTY 202 or completion of Basic Camp or US Army Basic Training with an approved waiver from the PMS.

The Advanced Course is designed to build off basic programs (MLTY 101, 102, 201, and 202) being progressive and sequential. The course is driven by the professional competence in Army doctrine and leadership principles taught through the Adult Learning Model. This includes introduction to squad/section tactical operations using troop leading procedures and battle drills to achieve the assigned mission within the commander’s intent. Cadets enrolling in MLTY
301 are required to enroll in MLTY 351; the Army Contract Lab and cadets will attend Physical Training. **Only cadets classified as 2nd-class cadets are authorized to enroll in this course.**

**MLTY 302  Leadership Under Fire**  Three Credit Hours

Prerequisite: MLTY 301

The Advanced Course will balance adaptability and professional competence building on the lessons introduced in MLTY 301. Various platoon operations are stressed in order to familiarize the cadet with materials that they can expect to execute during CST. Adaptability concepts introduced include analysis of complex problems, creating solutions that exhibit agile and adaptive thinking, analysis of the situational environment and formulation of solutions to tactical and organizational problems. Cadets enrolling in MLTY 302 are required to enroll in MLTY 352; the Army Contract Lab and cadets will attend Physical Training. **Only cadets classified as 2nd-class cadets are authorized to enroll in this course.**

**MLTY 401  Command and the Army Profession**  Three Credit Hours

Prerequisite: MLTY 302, completion of Advance Camp or with PMS approval.

MLTY 401 explores the dynamics of leading in the complex situations of current military operations. You will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. You also explore aspects of interacting with non-government organizations, civilians on the battlefield; the decision making processes and host nation support the complex ethical demands of serving as a commissioned officer in the United States Army. Scholarship and contracted cadets will register for MLTY 451, Army Contract Lab.

**MLTY 402  Mission Command and the Company Grade Officer**  Three Credit Hours

Prerequisite: MLTY 401, completion of Advance Camp or with PMS approval.

MLTY 402 explores the dynamics of leading in the complex situations during Unified Land Operations, examines the Art of Command, how to properly communicate with your NCOs and Soldiers, and Developing Others (counseling). Additionally, cadets will develop an understanding of how ethical decisions impact personnel and the unit mission. The course places significant emphasis on preparing you for BOLC B and your first unit of assignment. It uses mission command case studies and scenarios to prepare you to face the complex ethical demands of serving as a commissioned officer in the United States Army. Scholarship and contracted cadets will register for MLTY 452, Army Contract Lab.
Department of Naval Science

Department Head: Boyce
Professor: Boyce
Associate Professor: Griggs
Assistant Navy Professors: Slappe, Kenison, Awad, Tate, Ojard, Wiltz
Assistant Marine Corps Professors: Moreno, Parker
Instructor: Hart

The Department of Naval Science course of instruction is designed to provide students with the basic professional knowledge and leadership skills needed to become Navy and Marine Corps officers. In the initial three semesters, all students receive an introduction to the essential aspects of the Navy and Marine Corps warfighting team, the history of seapower and maritime affairs, and naval leadership and management.

Students receive their subsequent instruction in either Navy or Marine Corps service specific courses. Navy option students study naval engineering, combat systems, navigation, and naval operations and seamanship. Marine option students study Marine Corps organization and weapon systems, the historical development of warfare, and amphibious operations. Both options conclude with practical leadership training designed as final preparation for assuming the responsibilities of a junior officer in the Navy or Marine Corps.

An added value of being a member of The Citadel NROTC Unit is the opportunity to participate in a variety of quality off-campus Field Training Exercises (FTXs). These opportunities are enhanced by the close proximity, and eager support, of several local DoD organizations and installations. For Navy option midshipmen, FTXs include shipboard training, aviation operations, and joint operations with local Coast Guard assets. For Marine option midshipmen, FTXs consist of field orientation and tactical exercises conducted aboard nearby military installations.

More information about the Department of Naval Science may be found at www.citadel.edu/nrotc.

Sequence of Naval Science Courses

Fourth Class Year

All Naval ROTC Cadets

NAVL 101 Introduction to Naval Science
NAVL 102 Seapower and Maritime Affairs
NAVL 450 Navy Training Lab
NAVL 451 Marine Training Lab

Third Class Year

Candidates for U.S. Navy commissions

NAVL 201 Naval Leadership and Management
NAVL 211 Naval Ship Systems II (Weapons)
NAVL 450 Navy Training Lab
Candidates for U.S. Marine Corps commissions
NAVL 201 Naval Leadership and Management
NAVL 202 Marine Corps Concepts and Weapon Systems
NAVL 451 Marine Training Lab

Second Class Year
Candidates for U.S. Navy commissions
NAVL 313/321 Navigation/Navigation Laboratory
NAVL 310 Naval Ship Systems I (Engineering)
NAVL 450 Navy Training Lab

Candidates for U.S. Marine Corps commissions
NAVL 303 Evolution of Warfare I
NAVL 304 Evolution of Warfare II
NAVL 451 Marine Training Lab

First Class Year
Candidates for U.S. Navy commissions
NAVL 410/420 Naval Operations and Seamanship/Laboratory
NAVL 403 Naval Leadership and Ethics
NAVL 450 Navy Training Lab
NAVL 452 Naval Senior Lab

Candidates for U.S. Marine Corps commissions
NAVL 402 Fundamentals of Maneuver Warfare
NAVL 403 Naval Leadership and Ethics
NAVL 451 Marine Training Lab
NAVL 452 Naval Senior Lab

Naval Science Course Descriptions
NAVL 101 Introduction to Naval Science One Credit Hour
General introduction to the U.S. Navy and U.S. Marine Corps. Emphasizes organizational structure, warfare components, and assigned roles/missions of USN/USMC. Covers all aspects of naval service from its relative position within DoD to the specific warfare communities/career paths. Also includes basic elements of leadership and Navy Core Values. Designed to give the student initial exposure to many elements of naval culture. Also provides conceptual framework/working vocabulary for the student to use on summer cruise. (Navy and Marine Corps faculty)
NAVL 102  Seapower and Maritime Affairs  One Credit Hour
A study of the U.S. Navy and the influence of seapower upon history. Incorporates both a historical and political science process to explore the major events, attitudes, personalities, and circumstances that have imbued the U.S. Navy with its proud history and rich tradition. Deals with issues of national imperatives in peacetime, as well as war; varying maritime philosophies that were interpreted into naval strategies/doctrines; budgetary concerns which shaped force realities; and the pursuit of American diplomatic objectives. Concludes with a discussion of the Navy’s strategic and structural changes at the end of the Cold War and its new focus, mission, and strategy in the post-9/11 world. (Navy faculty)

NAVL 201  Naval Leadership and Management  Two Credit Hours
Introduces the student to many of the fundamental concepts of leading Sailors and Marines, which will be expanded upon during the continuum of leadership development throughout NRROTC. Develops the elements of leadership vital to the effectiveness of Navy/Marine Corps officers by reviewing the theories and parameters of leadership and management within and outside of the naval service and progressing through values development, interpersonal skills, management skills, and application theory. Practical applications are explored through the use of experiential exercises, readings, case studies, and laboratory discussions. (Navy faculty)

NAVL 202  Marine Corps Concepts and Weapon Systems  Two Credit Hours
This course introduces the student to the fundamental concepts of the Marine Corps in relation to its structure and organization, as well as the common weapon systems of the service and how they relate to its warfighting doctrine. This course is meant to help prepare the Marine option student for further courses in Evolution of Warfare, Amphibious Warfare, and Leadership and Ethics. This course also includes history and traditions of the Marine Corps relevant to the future Marine Corps officer. (Marine Corps faculty)

NAVL 313  Navigation  Three Credit Hours
In-depth study of the theory, principles, procedures, and application of plotting, piloting, and electronic navigation, as well as an introduction to maneuvering boards. Students learn piloting techniques, the use of charts, the use of visual and electronic aids, and the theory of operation of both magnetic and gyrocompass. Students develop practical skills in plotting and electronic navigation. Other topics include tides, currents, effects of wind/weather, voyage planning, and an application and introduction to the international/inland rules of navigation. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts listed above. (Navy faculty)

Students must be concurrently enrolled in NAVL 321 (Navigation Laboratory).

NAVL 321  Navigation Laboratory  0 Credit Hours
Laboratory exercise classroom session designed to parallel the lecture content of NAVL 321. Enrollment only permitted concurrently with NAVL 321. (Navy faculty)
NAVL 303  
Evolution of Warfare I  
Two Credit Hours

This course provides the student with a general knowledge of the concepts and art of warfare along with its evolution from the beginning of recorded history to the present. Included are the considerations of the influence that political, economic, sociological, and technological factors, along with different forms of leadership, have had on warfare, and also the theoretical principles behind modern strategy and tactics. (Marine Corps faculty)

NAVL 304  
Evolution of Warfare II  
Three Credit Hours

Prerequisite: NAVL 303

This course enables the student to acquire a working knowledge of the more practical aspects of warfare and the U.S. Marine Corps. The general principles of warfare addressed in NAVL 303 are considered as they relate to the small unit level. Tactical aspects of offensive combat are examined in detail. The student is given the opportunity to master skills required of the small unit leader—tactics and land navigation. Physical training is included to prepare students for summer training at Officer Candidates School, Quantico, Virginia. (Marine Corps faculty)

NAVL 310  
Naval Ship Systems I (Engineering)  
Two Credit Hours

Detailed study of ship design, hydrodynamic forces, stability, propulsion, electrical theory and distribution, hydraulic theory and ship control, and damage control. Included are basic concepts of theory/design of steam, gas turbine, diesel, and nuclear propulsion. Case studies on leadership/ethical issues in the engineering arena are also covered. (Navy faculty)

NAVL 211  
Naval Ship Systems II (Weapons)  
Two Credit Hours

Outlines the theory and employment of weapons systems. Student explores the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives. Fire control systems and major weapons types are discussed, including capabilities and limitations. The physical aspects of radar and underwater sound are described. Facets of command, control, communications, computers, and intelligence are explored as a means of weapons system integration. The tactical and strategic significance of command and control warfare and information warfare is discussed. This course if supplemented with review/analysis of case studies involving the moral and ethical responsibilities of leaders in the employment of weapons. (Navy faculty)

NAVL 402  
Fundamentals of Maneuver Warfare  
Three Credit Hours

Fundamentals of Maneuver Warfare is a detailed look at broad aspects of warfare and their interactions with maneuver warfare doctrine. Specific focus is on the United States Marine Corps as the premier maneuver warfare fighting institution. This class examines the historical influences of amphibious warfare and the development of USMC maneuver warfare doctrine on current tactical, operational, and strategic engagements. Case studies regarding the implications of maneuver warfare practices in current and future operations will be conducted throughout the course of study. (Marine Corps faculty)
NAVL 403  *Leadership and Ethics*  Three Credit Hours
Prerequisite: NAVL 402 (Marine option) or NAVL 410 (Navy option)
Completes the final preparations of Ensigns and Second Lieutenants. The course integrates an intellectual exploration of Western moral traditions and ethical philosophy with a variety of topics, such as military leadership, core values, and professional ethics; the UCMJ and Navy regulations; and discussions relating to the roles of enlisted members, junior and senior officers, command relationships, and the conduct of warfare. The course provides midshipmen with a foundation of moral traditions, combined with a discussion of actual current and historical events in the U.S. Navy and U.S. Marine Corps, to prepare them for the role and responsibilities of leadership in the naval service of the 21st century. (Navy and Marine Corps faculty)

**Students must be concurrently enrolled in NAVL 452 (Senior Naval Laboratory).**

NAVL 410  *Naval Operations and Seamanship*  Three Credit Hours
Prerequisite: NAVL 313/321
A continued study of relative motion, formation tactics, and ship employment. Also included are introductions to naval operations analysis, ship behavior and characteristics in maneuvering, applied aspects of ship handling, afloat communications, naval command and control, naval warfare areas, and joint warfare. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts listed above. (Navy faculty)

**Students must be concurrently enrolled in NAVL 420 (Naval Operations and Seamanship Laboratory).**

NAVL 420  *Naval Operations and Seamanship Laboratory*  0 Credit Hours
Prerequisite: NAVL 313/321
Laboratory exercise classroom session designed to parallel the lecture content of NAVL 410. Enrollment only permitted concurrently with NAVL 410. (Navy faculty)

NAVL 450  *Navy Training Laboratory*  0 Credit Hours
Required for all scholarship, Navy College Program midshipmen, and Seaman to Admiral-21 students. This lab is broken down by class year in order to provide professional education, navy specific training, and leadership development. Lab occasionally supplements Naval Science courses, as well. At the end of the 1/C year, all midshipmen will be prepared for commissioning in order to take on the roll of a junior officer in the Navy. (Navy faculty)

NAVL 451  *Marine Training Laboratory*  0 Credit Hours
Required for all scholarship, Marine option College Program midshipmen, and Marine Enlisted Commissioning Education Program students. This lab is broken down by class year in order to provide professional education, Marine specific training, and leadership development. This lab will also supplement Naval Science courses. At the end of the 1/C year, all midshipmen will be prepared for commissioning and life as a Marine Officer. (Marine Corps faculty)
NAVL 452  Senior Naval Laboratory  0 Credit Hours

Laboratory exercise classroom session designed to parallel the lecture content of NAVL 403. Guest speakers will expand on the lessons discussed in class. Additional training will cover fiscal responsibility, moral and ethical decision making, and the role of a junior/company grade officer. (Navy and Marine Corps faculty)

Students must be concurrently enrolled in NAVL 403 (Naval Leadership and Ethics).
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